







TWENTIETH ANNUAL REPORT

OF THE

RAILROAD AND WAREHOUSE COMMISSION

OF ILLINOIS.

RAILROADS, FOR THE YEAR ENDING JUNE 30, 1890. GRAIN INSPECTION, OCTOBER 31, 1890. OFFICE, DECEMBER 1, 1890.

COMMISSIONERS:

JOHN R. WHEELER, CHICAGO, Chairman. ISAAC N. PHILLIPS, BLOOMINGTON. W. L. CRIM, FRANKFOR**T.** J. H. PADDOCK, Springfield, Secretary.

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TWENTIETH ANNUAL REPORT.

STATE OF ILLINOIS, RAILROAD AND WAREHOUSE COMMISSION, SPRINGFIELD, December 1, 1890.

To His Excellency, Hon. Jos. W. FIFER, Governor of Illinois:

In this, the twentieth annual report of the Railroad and Warehouse Commission of Illinois, for the year 1890, we shall attempt to confine our discussions to those topics which we deem of practical importance arising in the field covered by our duties. We are glad to be able to open this report with a reiteration in substance of what we said one year ago, namely: That there is a continued tendency toward better equipment of railroads, improved road-beds, and safer structures, and, generally, toward a condition of greater safety, convenience and comfort for the traveling public, as well as one of greater speed and efficiency in transportation of freights. Much remains to do, no doubt, to bring the railroad service of the State to a condition of ideal perfection. Some of our roads, indeed, can never, under independent management, perhaps under any management to which they are likely to pass, take rank as perfectly safe highways, nor offer to the public more than second or third-class accommodations. Yet these weaker roads, with all their defects, perform important functions for the public; and none of them could be dispensed with without serious inconvenience to their patrons. When a road is once built, even though not justified as an investment for capital, and doomed to go from the hands of one receiver to those of another, people along the line, none the less learn to depend upon it; and the whole industrial and social economy of large neighborhoods of people is at once adapted to the great fact of rail transportation, imperfect though it be.

It is this state of dependence upon rail highways, into which communities of people so inevitably fall, which renders a judicious regulation of railways by law so necessary to the public welfare. If the people become dependent even upon the weakest road which happens to penetrate to their neighborhood, how much more is this so in the case of the better and stronger roads. Of these stronger roads this State has a large mileage; and of the better class of Illinois roads it may be said, without boasting, that in equipment, structures, and management they do not suffer in comparison with the very best in the United States.

PHYSICAL INSPECTION OF ROADS.

The Commissioners, accompanied by Secretary James H. Paddock and Consulting Engineer Chas. Hansel, have inspected the following railroads: Cairo, Vincennes & Chicago ("Big Four Route"); Chicago and Ohio River; Chicago, Santa Fe and California; Grand Tower and Carbondale; Illinois Central; Indiana and Illinois Southern; Jacksonville Southeastern; Mobile and Ohio; Peoria, Decatur and Evansville; Peoria and Pekin Union; St. Louis, Alton and Springfield; St. Louis, Alton and Terre Haute; Toledo, Peoria and Western; Terre Haute and Indianapolis (Vandalia); Terre Haute and Peoria; Wabash, and Wabash, Chester and Western.

CAIRO, VINCENNES AND CHICAGO.

This road extends from Tilton southwardly through the eastern portion of the State to Cairo, and was formerly a part of the Wabash, St. Louis and Pacific Railway. During the Wabash management the property was permitted to deteriorate until its physical condition was very bad. Shortly before our inspection was made the management of this line had been transferred to the "Big Four". About one hundred miles of the road is laid with sixty-pound steel rail. We found a considerable force employed in reconstructing bridges and road-bed, which, if continued, would greatly improve the road. We found the two trestle bridges south of Tunnel Hill in bad condition. As these bridges are very high, being from sixty-five to ninety-four feet from creek bed, special examination was made. The examination revealed faulty construction and decayed timber, and a general condition so bad that it was deemed necessary to order new bridges in their place. The management was requested to renew these bridges as soon as possible; and though we have not been officially notified of the fact, we learn through outside sources that the bridges have been replaced. At Carmi station a portion of the main track is used jointly with the Louisville and Nashville Railway, the south switch turning out of main track being a short distance from depot where all trains stop. The north junction, however, is about fifteen hundred feet from station. As operated at that time it presented a constant element of danger from collisions, as the trains of both roads approach the junction under full headway, expecting to find clear track. To protect this point we ordered both companies to join in the contruction and operation of a high semaphore signal.

CHICAGO AND OHIO RIVER.

This road extends from a junction with the Chicago and Eastern Illinois, at Sidell, to Olney, eighty-six miles south. The original gauge of this track was three feet, which has since been changed to standard gauge. The rails are iron and very light, ranging from thirty to fifty pounds. But thirty-seven men were engaged in maintenance of way, a force inadequate to keep the work in good condition. The schedule time for trains is, however, very slow and no accidents have occurred. For the year ending June 30, 1889, the books of this company showed a net deficit of \$689.89, with no interest paid on bonds. There seems to be no immediate prospect of improvement in this road and it continues to furnish reasonable accommodations for such business as is offered.

CHICAGO, SANTA FE AND CALIFORNIA.

This line extends in Illinois from Chicago to the Mississippi at Ft. Madison, two hundred and thirty-five and one-half miles, with a branch from Ancona to Pekin, fifty-seven and nine-tenths miles, including track of Toledo, Peoria and Western Ry. from Eureka to Pekin Junction, five and one-half miles. The line from Chicago to Pekin was formerly operated under the title of the C., P. and S. W. Ry., and is laid with steel weighing seventy-one pounds per yard. The rail from Ancona is new. There are three hundred and thirty-five bridges between Chicago and Ft. Madison, and seventy-four between Ancona and Pekin. The most important structure spans the Illinois river one hundred and thirtyone and one-half miles from Chicago. The principal structure over the river proper consists of one draw four hundred and fifty nine and three-tenths feet long, and three fixed spans one hundred and fifty-three feet each. The east approach is of pile and trestle bents, of sixteen-feet span, five thousand, five hundred and ninety-two feet in length. The west approach is composed of three pile and two hundred and thirty-five trestle bents three thousand, eight hundred and three feet long. Total length of bridge, ten thousand, one hundred and sixty-four and threetenths feet. The entire structure seems to be in good repair and extra precautions are provided for the guidance of enginemen approaching draw by a system of home and distant signals operated by bridge-tender. Considerable improvement is being made in the condition of the track, the regular track force being one man per mile, which force is increased by temporary extra gangs.

GRAND TOWER AND CARBONDALE.

This line extends twenty-six and two-tenths miles from Carbondale to Grand Tower. The business of this road is principally in coal. The line is laid with fifty-six pound steel rails, the oldest being seven years in service. There are but few bridges on this line and the physical condition is in keeping with the traffic.

ILLINOIS CENTRAL.

This line shows marked improvement, and with the new steel which is being laid and other general betterments, the addition of new motive power and coaches, bids fair to make this road one of the finest in the State.

INDIANA AND ILLINOIS SOUTHERN.

This line extends from Effingham east, crossing the Wabash river at Riverdale, fifty-three miles. The original gauge was three feet, and was changed in 1887 to standard gauge. The original rails are still in service and are very light, being but thirty-five pounds per yard, and are now very much worn. Many of the short narrow gauge ties remain in track. The joints are partly bolted and ties are not full spiked, and the general condition is very bad. The only important bridge spans the Embarrass river. This bridge is a new through iron truss.

JACKSONVILLE SOUTHEASTERN.

The title of the company operating this line is the Chicago, Peoria and St. Louis. The main line, first operated as the J.S. E. Line, extended from Jacksonville to Centralia. This line has been extended to Drivers under the title of Louisville and St. Louis. The Litchfield, Carrollton and Western, extending from Barnett to Columbiana, was added to the J.S.E. system. The line of the P., P. & J., extending from Pekin to Jacksonville, and the S. & N. W., extending from Havana to Springfield, were purchased of the Wabash and added to the J. S. E. system. The J. S. E. line is also operating the St. Louis and Chicago Railroad, from Springfield to Mt. Olive, and have extended the line to East St. Louis. As will be observed, the system known as the J. S. E. Line is made up of a number of dependent roads; and while its corporate name is not the J. S. E., for commercial reasons it chooses to operate under that title. Only a portion of this road has been inspected, being that part extending from Pekin via. Springfield to St. Louis. Considerable new steel has been laid between Havana and Pekin, and some renewals in rails have been made between Havana and Springfield. Since the leasing of the St. Louis and Chicago line, the section force has been increased and considerable improvement has been This line is now finished to East St. Louis and the made. Santa Fe trains are running from Chicago to St. Louis via. Pekin, using this line from Pekin.

This line extends from Cairo to East St. Louis, distance one hundred and fifty-two miles. As originally constructed it was intended for a narrow gauge, and as all laws of gravity seemed to have been suspended when narrow gauge roads were built, the present grades and alignment present a great hindrance to operation. The gauge was changed to standard gauge in 1886, and new steel, weighing sixty pounds per yard, was laid. Con-siderable work was performed previous to our first inspection during September, 1889, but owing to continuous mild weather, with heavy rain during the following winter, the road bed was considerably damaged and it was necessary to maintain temporary surface by shiming. A second inspection was made during August of this year, when we found a large force of men at work shouldering embankments for ballast, ditching and filling. A force with steam shovel were engaged in cleaning out cuts and filling in openings where renewals of bridges were necessary. The entire line was busy with general improvement, which bids fair to place it in better condition than ever, before the winter closes down work.

PEORIA, DECATUR AND EVANSVILLE.

This line extends from Pekin to Grayville, on Wabash river, two hundred and three and six-tenths miles. When inspected the rail was fifty-six pound steel, and twenty-six miles old iron. The track force is not sufficient to maintain the track properly, and more cross ties should be put in. We have advised the management that these renewals must be made and the general physical condition of the road improved.

PEORIA AND PEKIN UNION.

This road is used for a terminal and switching road at Peoria with a line extending to Pekin. The general condition of the road is good. The bridge crossing the Illinois river at Lower Peoria has been the subject of special examination and report. On Feb. 3, 1890, an accident occurred there of so serious a nature that it was deemed advisable to send Mr. Chas. Hansel, Consulting Engineer, to make a special examination and report. It was found that the Superintendent of the P. & P. U. Ry. had employed an expert from the Detroit Bridge Co. to make examination of the bridge, in December of 1889, with the view of learning if the bridge was sufficient to maintain the increased traffic. No written report had been made up to the time of the accident, but no defect was reported to your Commission or the railway company. On the evening of February 3, a train of the "Big Four" (which company uses this bridge), composed of coal and grain cars, and pulled by an engine of the consolidated type, pulled out from the junction, and receiving ad-

vance signal moved onto the bridge. The engine had reached the first pier when the shore span fell from under the tender, pulling the engine back and precipitating it to the river bot-The head brakeman and fireman were caught between tom. tender and boiler and instantly killed. The engineer was held by the legs with his head above water, and although great effort was made to release him, he died in that position. The shore end of the span remained on the abutment. The engine standing with her rear drivers on the bottom of the river and the front trucks resting against the pier near the coping, thus standing nearly vertical with the tender at right angles to axis of engine. As the lower chord at point of fracture was buried under the wreck it was impossible to determine the cause of failure. The fractures presented to inspection showed clean and new. The main structure is made up of four fixed spans of one hundred and fifty feet each, one span of one hundred and twenty-five feet and a draw of three hundred feet. The fixed spans are of the type known as "Post's Patent Diagonal Truss", a combination of wood, iron and steel. The span which failed was the shortest. It was reconstructed in January, 1881, by Rust and Coolidge, bridge builders of Chicago, to a calculated moving load of three thousand pounds per lineal foot. Compression members (top chords and struts) and track stringers are of white pine; tensil members (bottom chords, suspension bars and counter bars), lateral rods, floor beams and hangers of iron; pins of steel, and top chord housed with corrugated iron. Mr. Hansel reported that the timber showed sound, but the iron and steel presented a low grade of metal and recommended that the different members be subjected to test by machine and analysis to determine upon the condition of the remaining structure. Samples were sent to the Pittsburgh Testing Laboratory and showed as follows: Carbon, 0.270%; manganese, 0.530%; phosphorus, 0.165%; sulphur, 0.128%, and silicon, 0.055%. Phosphorus makes steel brittle and hard, and the same is true to a less degree with silicon. Modern specifications for steel to be used in such work would be phosphorus, .07 to .08%; sulphur, .03 to .04%, and silicon, less than .02%. By comparison with the results obtained it will be seen that the ratio was greater in the specimen tested. In the testing machine the steel fell below the general requirements in elongation, reduction of area and character of fracture, showing a remarkably poor piece of steel. The iron was defective in tensil strength and in bending cold. Iron subject to tensil strain should be tough, ductile, of uniform texture and capable of bearing or sustaining not less than fifty thousand pounds per square inch of sectional area. When tested in large and long lengths it should have an elastic limit of not less than twentysix thousand pounds per square inch. The reduction of breaking area should average .25% of the original area, and the elongation of the bar before rupture should be at least .15%; and when cold, a round bar one and one-half inches in diameter

must bend through one hundred and eighty degrees without fracture. The specimens fell far below the standard, and a copy of Mr. Hansel's report was furnished the management of the P. & P. U. Co. with instructions to make such renewals as Mr. Hansel deemed necessary, and that in operating, no greater moving load will be allowed than will strain to exceed two thousand pounds per foot on any span; and that all trains must be held to a speed not to exceed six miles per hour. General Superintendent M. S. Connors, advises by letter that a bridge is being built at King Bridge Company's works, and that it is hoped to have it in place soon.

ST. LOUIS, ALTON AND SPRINGFIELD.

This line was formerly operated by the Wabash, and extended from Bates to Grafton. After the sale to the St. Louis, Alton and Springfield Company, a branch line was built from Newbern to Alton, thirteen and four-tenths miles. Between Newbern and Elsah the line was temporarily built over the hill, necessitating heavy grades, curvature and extensive bridging. The completed line contemplated a tunnel, which was commenced and abandoned after considerable work had been done. The building of this line required many high and extensive bridges, and at the time the road was taken from the Wabash management the physical condition was poor, and little had been done to renew the structures and roadbed. Complaint was made that some of the bridges were dangerous for traffic. Mr. Chas. Hansel was ordered to make a thorough examination of the entire line, and make special report on each bridge. This examination was made by him. The general officers accompanied him, and a stop was made at each bridge, where the timber was carefully examined by boring and prodding. Mr. Hansel's report, which is on file in this office, describes in detail each bridge, and the kind and number of members necessary to renew in order that the bridges might be safe for traffic. We find from his report that there are one hundred and nine bridges on this line, having a total length of fifteen thousand one hundred and sixty-two feet. The repairs indicated as necessary on bridges between Newbern and Elsah would involve a considerable expense, and the company was given the choice of making such repairs or abandoning the track. They chose to abandon the track, which was taken up between Jan. 1, 1890, and Sept. 16, 1890. This removal abandoned four thousand two hundred and eighty-one lineal feet of dangerous bridging, and is generally satisfactory. In order to connect with Elsah and Grafton, it was necessary to build from Piasa, on the Alton branch, up the river to Elsah, distant five miles. This line is now completed. The Alton branch is laid with fifty-six pound steel, the original line being iron of same weight. The road needs sixty thousand cross ties and general repairs. The report made by Mr. Hansel was sent the management, with instructions to comply with recommendations contained therein. The road is now in the hands of a receiver, who

is authorized to issue \$300,000 in receiver's certificates. This money is intended for the rebuilding of the road and relaying fifty-one miles with sixty pound steel. Considerable improvement has been made in this line, yet much remains to be done.

ST. LOUIS, ALTON AND TERRE HAUTE.

This line extends from East St. Louis to Eldorado, with branch from Pinckneyville to Pellonia, opposite Paducah, and from Belleville to East Carondelet. The line is laid with sixty pound Edgar Thompson steel. There are no bridges of importance. The maximum grade is seventy-eight feet per mile. Considerable improvement has been made on this line during the past season.

TOLEDO, PEORIA & WESTERN.

This line extends from Hamilton and Warsaw to State Line, with branch from LaHarpe to Iowa Junction. When this road was taken from the Wabash system the physical condition was poor. Soon after the new company commenced operating the road the Chatsworth wreck occurred. This was a severe blow to the new company. A meeting of the directors was held at once. when it was determined to advance funds to meet the payment of claims amounting to over \$300,000. As there were no funds in the treasury, this advance was made by the directors, which was highly creditable to them. Since that time the road has been making steady improvements, filling in trestles and renewing bridges. The combination draw bridge crossing the Illinois river at Peoria was replaced this season by a new bridge of iron and steel. This bridge consists of two through fixed spans, one hundred and forty eight feet and eight and one-half inches from center to center of end pins, and one draw two hundred and eighty five feet and six inches from center to center of end pins. The old piers were fitted with new seats, and the entire structure is now first-class. This bridge cost \$48,605.30, and was opened for traffic November 9, 1890. A new bridge for Spoon River is now building, which will cost \$9,000. These two streams are the only important ones crossed by this line. These improvements were carried on, notwithstanding the books of the company showed a net deficit of \$16,883.99 for year ending June 30, 1889.

VANDALIA LINE.

This road extends from East St. Louis to Terre Haute; line in Illinois, one hundred and fifty-eight and three-tenths miles. The track is ballasted throughout, forty-two miles of rock ballast on west end, the rest gravel. From East St. Louis east twenty-two miles the rail is seventy-pound steel. All main track turnouts have point switches and spring frogs, and the entire line is full bolted and spiked. All necessary highway signs, whistling posts, mile posts, cattle guards and cross and line fences are in place. Cross fences are whitewashed and switch stands clean and well kept. Fifteen hundred feet of wooden bridges have been replaced by earth with stone culverts.

The business is nearly all through. The heavy power and long trains necessitate close attention to maintenance of way, and the fact that no person was injured by derailment or collision during the year ending June 30, 1889, is evidence of careful and intelligent supervision. The road is in every way first-class.

WABASH,

That portion of this road which extends from Effingham to Bement, and from Bement to Springfield was inspected. The track from Decatur to Bement is an example of the most finished work on this road. All the traffic to Toledo and Chicago from St. Louis, Keokuk, Quincy, Hannibal and intermediate stations passes over this twenty miles of track. It is well tied and ballasted and laid with heavy steel. All traffic is operated under the absolute station block system. All switches and frogs are of the most approved pattern, and the track is first-class throughout. The line from Bement to Effingham, sixty-two miles, has been greatly improved and is sufficient for the traffic The line from Decatur to Springfield is an example of track which, while not equal to the best portions of the road, is much better than the branch lines, and bids fair to equal the best.

WABASH, CHESTER AND WESTERN.

This road extends from Tamaroa on the Illinois Central, to Chester, 40.7 miles. The track is laid with sixty pound steel, ties are good, and although there is no ballast the surface and line are good. There are no bridges of importance, and the accommodations seem to be sufficient for the business offered.

IMPROVEMENTS.

During the past year many notable buildings and bridges have been constructed for the convenience of traffic and the safety and comfort of passengers. The finest station building in the west has been finished this year, namely, the Grand Central Station in Chicago, on the corner of Harrison street and Fifth avenue. This station is intended for the use of the Chicago and Northern Pacific Railroad, the Wisconsin Central lines, and the Chicago, St. Paul and Kansas City Railroad. The building has a frontage of two hundred and twenty-six feet on Harrison street, and eight hundred and thirty-seven on Fifth avenue. A portion of the building is seven, and the remainder four stories in height, with a tower two hundred and twelve and one-half feet high above the sidewalk. Facing upon Harrison street is a very large carriage court one hundred and seventeen feet deep and one hundred and forty-nine feet wide. The train shed is five hundred and sixty-two feet from out to out, having a clear width of one hundred and nineteen feet. The depot tracks and station yard switches are controlled by a twentyfour lever electro-pneumatic signaling and switch machine. No expense has been spared to make this the finest station in Chicago, complete in all its appointments and grand in its design.

The St. Louis Merchants' bridge, which was opened May 3, 1890, is worthy of mention, it being the second bridge connecting Illinois with Missouri at St. Louis. This bridge was designed by Messrs. Morrison & Corthell, and built under the supervision of E. L. Corthell, of Chicago. The east approach to the bridge is made on wooden trestle bents. The Chicago and Alton, "Bee Line," and Wabash Railroads are spanned by a truss one hundred and seventy-five feet in length with a forty foot girder.

The style of the three spans of the main bridge is a double intersection pin connected truss, with horizontal bottom chord and a curved top chord. The entire structure is of steel, except pedestals and ornamental parts, which are of cast iron, and nuts, swivels and clevises, which are of wrought iron. The entire bridge and approaches is built for double track. The cost of this bridge is about \$4,000,000, the company having an authorized capital stock of \$2,000,000, and an authorized issue of first mortgage bonds of \$2,000,000. Owing to the delay in completing terminals in St. Louis, the bridge is not open for regular traffic. The terminals on Illinois' shore are being completed, and it is expected that arrangements will soon be completed to accept all business offered.

CLASSIFICATION OF ROADS.

We have recently completed a re-classification of the railroads in Illinois. For a time we had in contemplation the making of three classes of roads, A, B and C.; but upon an examination of the tabulated statistics for the year ending June 30, 1890, we concluded that no reason existed for making a third class which had not existed at the time the former classifications were made; and on full reflection, we finally determined to adhere to the division of roads into two classes. Some of the roads which were formerly classed as "B" roads have been in the new classification, put into the "A" class. The number of such roads is not great and the classification as it now stands leaves the roads in the State about equally divided in number between classes "A" and "B." This classification of roads is not in many cases very important. There are few class "B" roads which do not at some points on the line come into competition with roads of class "A," and wherever they do so, they are, of course, under the necessity induced by competition, of making their rates conform to the lower rates of the class

"A" roads; and since the law requires the roads to base their rates upon distances, the competing rates fixed at these points must of course influence the rates at intermediate points so that frequently in the case of a "B" road which penetrates territory which is also penetrated by one or more "A" roads, the rates are by the necessities of the situation almost equalized. However, there are some weaker roads, which have a hard struggle for existence, and which are enabled by being classed "B" to get a slightly increased revenue. The difference, however, in our schedule of rates for "A" and "B" roads does not exceed five per cent. and that only upon certain articles and classes. This is a much less difference, we note, than the difference made in the tariffs of other states between their different classes of roads.

It sometimes happens that the same company operates several different lines of road, some of which lines yield much greater revenues than other lines operated by the same company, but in nearly all such cases the company makes one report for all its lines so that the Commission have no basis upon which it could make any difference in the classification of the different lines of the same company. We see nothing in the law which would prevent us from doing this provided the accounts of the companies were kept in such a way as to furnish us a basis for separate line classification. This is a measure which we have not so fully considered as to enable us to express a definite opinion as to its utility, though we have the matter under consideration and may act upon it soon.

IMPROVED COUPLINGS, BRAKES AND OTHER RAILWAY APPLIANCES.

We stated in our report of last year that we were engaged in making certain investigations covering the subject of improved safety appliances for railroads so far as the same relate to the safety of the traveling public, and of the lives and limbs of railway employés. This investigation we have continued during the past year, and the more the subject has been examined the greater has its importance seemed to the Commissioners, and the more difficult has it seemed to treat the subject in a fitting manner in a report of this kind. The only object, perhaps, of our discussing the subject at all is to throw such light upon it by giving information to your Excellency, and through you to the General Assembly of the State, as may lead to wise legislation in the direction of requiring the use of better equipments to the end that human life may be preserved. When it is considered that in round numbers two thousand railway employés were killed and over twenty thousand were injured in the United States during the year ending June 30, 1889, the dangerous nature of railway employment becomes apparent, the same being one death for every three hundred and fifty-seven employed in operation and one injured for every thirty-five men so employed. These figures embrace the entire country. We speak

particularly of employés of railroads for the reason that while safety appliances are calculated in a considerable degree to increase the safety of passengers they have a more direct reference to the safety of those who operate trains.

We know it will be said, as it has often been said, that the running of railroad trains is a hazardous calling, known to be such by all men, and that when a man enters upon such a hazardous calling he does so with his eyes open, and takes the risk of maining and killing, which is well known to be incident to the employment. It is also said that the scale of wages is adapted to the hazard of the business and that men elect to take the chances for the increased pay when they enter upon the business of railroading.

This may be all true enough, looking at the matter from a cold legal standpoint, but it ought not to still the voice of the public conscience nor answer the demands of humanity. Those who enter upon these dangerous callings are almost always young men, many of them boys, to whom the prospect of a dangerous occupation has few terrors but rather tends to stimulate their natural confidence and buoyancy of spirit. The solicitude of the law for the protection of such should rather be increased than diminished because they are brave of heart in the consciousness of youth and strength. Whatever can be legally done, without oppressing or crippling railway companies, for the protection of such should be done in obedience to the dictates of humanity, no less than in furtherance of good railroad practice, which will tend, incidentally, strongly to insure the safety and welfare of the traveling public, whose interest in the matter, though less urgent than that of railroad employés, is not by any means to be overlooked.

Those who make the laws are in but very rare cases railway experts. Few of the law-makers have had any personal experience which enables them to know what may be done in a practical way to diminish the terrible fatality of railway service. In no field has the ingenuity of this inventive age been more active than in devising improved railway machinery. So many appliances are offered to the public that it would be confusing to the mind of any but a practical expert to attempt to say what is practicable and what is not with reference to the equipment of railroads. The roads can not, of course, adopt every new untried device which is offered them, but in certain fields practical tests have been made, such as in the matter of couplings, train brakes, heating and lighting of coaches and the like, which put these matters beyond the domain of mere experiment, and show conclusively that better things are within reach.

In view of the character of this subject, we determined that the best method of getting needed information before your Excellency and the General Assembly on which desired action might be based, would be to cause a competent expert to review the whole subject of safety railway appliances. We accordingly, on the 23d day of July, 1890, directed Mr. Chas. Hansel, our consulting engineer, who is one eminently qualified by experience and study to treat this theme, to prepare for us a comprehensive report upon this most important subject. The report of Mr. Hansel, prepared in pursuance of such request, we herewith transmit to your Excellency, and make the same a part of this report. It will be found printed in full in this cover, and speaks so well for itself, that we need not occupy space in any exposition of its contents, but would rather refer to it as a whole as containing matter which will prove of great interest to those who recommend and pass laws for the public good.

Before leaving this subject we, however, feel constrained to here emphasize the great necessity of hastening as much as possible the universal introduction of two appliances which have particular relation to the safety of trainmen, and the practicability of which has been fully demonstrated, namely: Continuous train brakes, and automatic couplers for freight trains and cars. Of the two thousand railway employés killed in the United States in the past year, three hundred were killed in the coupling and uncoupling of cars, and four hundred and ninety-three were killed by falling from trains and engines, and of the injured, six thousand seven hundred and fifty-seven were injured in the coupling and uncoupling of cars, and two thousand and eleven in falling from trains and engines. Thus we have in the United States in one year seven thousand and fifty-seven persons killed and injured in the act of coupling and uncoupling cars alone, and two thousand five hundred and four killed and injured in falling from trains. Those thus killed and injured in falling from trains, no doubt, in most cases came to their injuries while engaged in setting brakes upon the tops of freight trains, a most hazardous business, the necessity of which would be entirely dispensed with if train power brakes were used on freights which could be operated from the locomotive instead of hand brakes which must be set separately by men running from car to car.

Experience has fully demonstrated the efficiency of automatic couplers and of train brakes in actual practice upon passenger trains, which latter trains are now nearly all equipped with the improved couplers and brakes. No reason is perceived why freight trains could not be equipped in the same way. The first expense would no doubt be considerable, but we firmly believe when all phases of the question are considered, that in the end it would be economy for the companies to equip their freight trains as to couplers and brakes in the same manner that all first-class companies long since equipped their passenger trains. The transition period between the two systems will necessarily be fraught with much danger and should be made as short as possible when once it is determined to enforce this large and salutary reform.

It is not our purpose to recommend particular patents or appliances, but rather to endeavor to give information through the medium of this report to the legal functionaries of the State. Hence with the observations above made, and, referring again to the able paper of Mr. Hansel, we submit this subject for your candid consideration.

CROSSINGS AND CROSSING EQUIPMENTS.

In our report for the year 1889, we briefly called attention to the subject of interlocking and signaling devices, and spoke with approval of their introduction at the various crossings in this State. We then said, "Inasmuch as such interlocking systems can at present be introduced only by the mutual agreement of the companies controlling the crossing tracks, and the difficulty of arriving at such agreement often prevents the introduction of interlocking machines where the public good really requires them, we think it advisable that a law be enacted under which some proper tribunal would be designated to hear the cases where there is disagreement between the crossing roads, and with power to make such order covering the case, as may be found under all circumstances to be for the public good."

Our observation and experience since that report was submitted have fully confirmed our expressed conviction that additional legislation is necessary to compel the proper interlocking of crossings. The number of grade crossings in this State is very large. There are two hundred and thirty-one stations where roads cross, not including crossings in the cities of Chicago, East St. Louis and other railroad centers where tracks are concentrated. We have no reliable data for fixing with certainty the number of crossings in the large cities, but consider that a conservative estimate would place the total number of grade crossings in the State at not less than seven hundred. Of this large number only thirty-four have been equipped with interlocking and signaling devices. Those crossings that have been so equipped and are now operated under permits issued by the Commission are shown, together with the style of each machine, by the following table: CROSSINGS EQUIPPED WITH INTERLOCKING AND SIGNALING DEVICES.

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This leaves the approximate number of six hundred and sixty-six crossings unequipped with any devices for the protection of life and property at said crossings; and we have reason to believe that the employes of roads do frequently, either through negligence or purposely, disregard the statute which requires that all trains shall come to a full stop before passing over the crossing of another road, unless authorized to do so by a permit of the Commission, which can only be given when the crossing is properly interlocked.

THE JACKSONVILLE DISASTER.

The recent appalling disaster at the crossing of the Chicago and Alton and Wabash roads, at Jacksonville, Illinois, though happening after the date of this report, is thought of so much importance that it should be mentioned here and considered in connection with the topic of needed legislation. We have been at some pains to collect the facts surrounding this accident, so far as the same might guide us in our duties with reference to matters of this kind. Our function in the premises can, of course, be no more than the recommendation of such measures for the consideration of your Excellency and the General Assembly as may hereafter tend to prevent what, in this case, seems a needless loss of human life.

The facts of the Jacksonville disaster are in brief these: On the night of Dec. 5, 1890, the Kansas City limited express on the Chicago and Alton road had made its regular stop at the Jacksonville station, and was standing with the chair car of the train immediately across the track of the Wabash road. The train was about thirty minutes late. Had it been on time it would have been out of the way, and the crossing would have been clear. It is the custom, we believe, of the Alton road to stop its west bound trains across the Wabash track at this place, the depot being so located as to render that necessary. While this is in itself bad practice, we realize that in the case of joint depots at the junction of roads it is not uncommon for the location to be such that trains stop across the tracks of other crossing roads; and, so long as the employès of both companies obey the law, there is no need of any resulting accident. The law expressly directs each engineer in charge of a train to come to a full stop within eight hundred feet of any railroad crossing, and ascertain that the track is clear before proceeding with his train. Had this injunction of the statute been obeyed by the Wabash engineer, he would not have proceeded until the crossing was cleared by the express train of the Chicago and Alton. It, however, appears clearly from the evidence that the Wabash engineer made little or no effort to comply with the law, notwithstanding his testimony to the contrary. The engineer of the Alton train heard the train approaching upon the Wabash road, which train was loaded with coal, and realizing from the rate of speed the train was making

that it was probably not under the control of the engineer, attempted to pull his train off the crossing, but succeeded only in pulling up one car length, bringing the middle of the sleeping car "Matterhorn" immediately across the Wabash track, at which juncture the Wabash locomotive crashed through the sleeper, instantly killing two men and injuring others, one so severely that he soon afterwards died. The clean manner in which the locomotive cut through the sleeping car makes it very evident that the Wabash train must have been proceeding at a high rate of speed; and such a rate of speed at this point of crossing cannot be at all reconciled with the Wabash engineer's statement that he shut the steam off of his locomotive one and a half miles before reaching the Alton crossing. There is between the point designated by him as the one at which he shut off steam and the Alton crossing a sharp up-grade near three-quarters of a mile in length. It is scarcely conceivable that the train, although a heavy one, would by its own momentum have climbed this grade and struck the Alton train with such velocity had the steam been shut off at the point stated, even though no brakes had been set; and when the testimony of the engineer, that he called three times for brakes, and that of the Wabash brakemen, that they answered said call by setting brakes as fast as they could, are remembered and considered in connection with the great force of the blow upon the Alton train, the incredible character of the testimony reaches the limits of the impossible. The case looks much to us as though the Wabash engineer was either wholly inattentive, or else intended to run the crossing without stopping, relying upon the fact that the Alton had no train due to be at the Jacksonville crossing at that time, and that the hour was late enough so the infraction of law was not likely to be observed and reported.

We have on file all the evidence taken in regard to said disaster, and we have obtained a profile of the Wabash road showing grades as they affect the question of stopping this train. Had the engineer given the signals as he states, and the brakemen obeyed them as they state, they would, we think, have set every brake on the train before it arrived at the crossing; and besides, unless the train was going at an almost incredible rate of speed, it would have required few brakes to stop it; provided the engineer ceased to work steam as he states.

We have thus commented upon this accident in this connection because it peculiarly points the necessity, that crossings such as that at Jacksonville, (and there are hundreds of them in the State) should in the interest of safety and humanity, be equipped with interlocking devices, which is the point of our present discussion. The law as it stands confers no adequate power upon this Commission to compel the interlocking of crossings. A majority of the Commission are of the opinion that it does not even anthorize them to compel the putting in of interlocking plants at new crossings, and an opinion of the majority of the the Commission to that effect will be found in the appendix, and is here referred to as a general expose of the views of the Commissioners as to their powers under the crossing act.

We therefore urgently present to your Excellency the necessity of recommending the passage of a law by the General Assembly requiring that all crossings in this State be equipped with interlocking devices such as may be approved by the Commission. These interlocking devices are of different cost, the cheapest kind that is effective for a plain crossing costs about \$2,500. The original cost, however, is of less consequence than the annual cost of operating and maintaining such devices, there being required the services of two men to relieve each other so that one man can be always in the tower to operate the machine. The salary of these men may be estimated at from \$40 to \$45 per month apiece. The cost of maintaining the apparatus would not be great; and it might probably be safely said that an original cost of \$2,500, and a subsequent annual outlay of \$1,200 per year will be required to equip each plain crossing in the State, to be borne by the two companies either equally or in different proportion as may be determined upon the equities of each case. In neighborhoods where more complicated and expensive machinery would be required, the cost would be much greater. Such are those crossings in large cities where there is a complication of tracks. A single interlocking device in such a place may often cost from twenty-five to forty thousand dollars; but generally in such cases the cost is paid by a number of roads, and is therefore not as heavy upon each road as a statement of the same would seem at first to indicate. It is probable, too, that companies equipping all their crossings at one time, could get considerably better terms than are above stated, because they would be in that case buying a large number of machines at one purchase.

Inasmuch as there are some crossings of small roads which run but few trains, and which, therefore, do not present the same dangers which are presented by those roads which run numerous trains, a law may be thought sufficient which would vest in the Commission a discretion over the question as to what crossings should be interlocked. There may be cases, too, where it would be inequitable to require the expense of the interlocking to be borne equally between the companies. One company may run many trains and carry an immense traffic in passengers and freights, while another company which crosses this line may run not more than two or three trains per day. There are such cases that we know of, and it may be doubted whether in such a case it would be fair to require the weaker company to pay as much of the cost as the stronger one. Should this view of the case be taken by your Excellency, or by the General Assembly, the necessity will be apparent of fixing some tribunal, (which would probably be the Railway Commission) to fix in each individual case the amount to be paid by each of said companies toward equipping the crossing with interlocking. That additional legislation should be had upon this question, does not, in the mind of the present Commissioners, admit of any doubt.

Had the crossing at Jacksonville been equipped with an interlocking plant which would have ditched the Wabash train at the derail point, it is highly improbable that the engineer of that train would have come up to the crossing with any such reckless rate of speed as that at which he was running. If the safety of others was not a consideration that would deter him, the safety of his own neck would have been quite certain to have influenced him differently, and he would have, almost certainly, approached this crossing "under control." It may be that the customary distance of three hundred feet for the derailing point would not have been sufficient to stop the Wabash train at the great rate of speed at which it was evidently proceeding; but the engineer never would have approached the crossing at any such rate of speed had he known that a derailing switch was open to throw his train from the track. We earnestly commend this subject to your attention.

REFRIGERATOR CARS.

A subject which has not received the attention of the General Assembly is that of refrigerator cars. The statute of this State provides that this Commission shall make "a schedule of reasonable maximum rates of charges for the transportation of passengers and freights," etc. It frequently happens that shippers desire to have carried articles which are perishable, and which, particularly in the summer time, require to be carried in cars of a particular construction which will guard against the heat. These cars are generally furnished by a company different from the carrying company, and this company charges a sum for the use of its facilities over and above the freights allowed by the schedule of the Commission for the simple "transportation" of the freight. It is claimed that an extra service is performed with reference to this freight over and above what is taken into consideration in fixing the schedule of maximum rates. Just how far the Commission have, under the statute, power over the question of what are reasonable charges for this extra service rendered by those who furnish refrigerator cars, or cars of some peculiar construction required for the transportation of perishable freights, may be regarded as a question of some difficulty. It would seem it might, without straining the law, be held that as the general progress of carrying appliances brings into use new and improved methods of carrying for freights in transit, that a new and increased duty attaches to the carriers to provide themselves with such improved facilities, where the same are not so expensive as to render the requirement unreasonable. It would not seem just that railroad companies and transportation companies, alone should reap the pecuniary benefits arising from the general progress of discovery. The community, as a

whole, surely has some right in those improvements which in this age are constantly leading to higher and better forms of commercial activity. We are not at this time prepared to make a recommendation upon this subject, but it is one which we think may well be mentioned here for the serious consideration of your Excellency and of the General Assembly.

A COMMON SEAL NEEDED.

We think the law should be so amended as to provide that this Commission may keep and use a common seal for the authentication of its proceedings, and that provisions should be made for the authentication of its reports and papers by copies certified to by the Secretary of the Commission under the seal of the Commission, substantially in the manner that is now provided in the case of records of courts. It sometimes occurs that it is important to prove the action of the Railroad Commission in court. Outside of the provision of the statute as to the admission in evidence of the schedules of said Commission, there is no way which our proceedings could be proven, except by carrying the record books of the Commission into court and taking the Secretary along as a witness to their correctness. All this we think could be obviated by providing that the Commission may keep a seal and may authenticate its proceedings by the use thereof. We recommend that a law be passed to the effect suggested.

LIVE STOCK RATES.

We have the honor to report to your Excellency that we have adopted and published, as provided by law, a new schedule of maximum rates to be charged for the transportation of live stock by the roads of this State. This new schedule is to go into effect January 1, 1891, and the same is based upon weight, the freights under it to be computed at so many cents per hundred pounds of live stock actually transported.

In submitting this new tariff of maximum rates of freight upon live stock, based upon weight as distinguished from the car-load basis, the Commission deem it proper to recount the history of the investigation and discussion which has been had touching the relative merits of these two systems.

While hundred-weight rates upon live stock have never been formally adopted by the Commission, freights have in fact been computed by the roads upon the hundred-weight basis since January 1, 1889. When the present members of the Commission came into office they found the freights upon live stock then being computed upon the hundred-weight basis, as it had been some time before their accession to office.

There had previously been extensive preparation for the change made by the roads of the State in the way of experimental weighing, and in procuring statistics upon which it was proposed by the roads to inaugurate the weighing system. Many of the shippers of the State had, however, filed a formal protest, or complaint before the Commission objecting to the proposed change. This protest or complaint, it appears from the record, after some preliminary meetings, came up for final hearing before the Commission at Springfield, on June 30, 1887.

The record kept by the then Secretary of the Commission, which is the source of our information upon this subject, recites that the leading railroads of the State were, at this meeting, represented by their officials, in most cases by their general managers, and that the shippers were represented, as the record further recites, by "one hundred delegates."

The record further recites that after the meeting had been called to order and the object thereof stated, a request was made on behalf of the shippers that time be granted in which to hold a preliminary meeting with the railroad officials before proceeding with the hearing; that such time was granted and the Commission adjourned until the afternoon. The record further shows that in the afternoon the parties again all came before the Commission, and it was then stated that the companies and the shippers had come to a satisfactory agreement among themselves; and the shippers thereupon withdrew their protest and asked that the matter be dropped without further present action by the Commission, which was accordingly done.

Such, in brief, is the history of the subject, so far as official action by the Commission is concerned. The present Board found the weighing system in full operation, under some arrangement made with the "one hundred shippers" who attended that meeting at Springfield as delegates, the exact terms of which arrangement were not made a matter of record before the Commission and are in fact unknown to the present Commissioners.

In view of the manner in which the weighing system was thus originally begun, and particularly in view of the fact that, at its inception as an experiment, it had the sanction of a large, if not a representative body of the shippers of the State, the present Commissioners have not felt at liberty to act with haste in the premises, nor to arbitrarily change the practice thus entered upon. We believed it prudent to wait until such time as substantial results and fair conclusions could be arrived at from actual experience with the weighing system. That time has now, we think, arrived; though it cannot be said our data was sufficient on which to have acted intelligently at a much earlier time. Those who have upon them, and duly measure, the responsibility of binding action, can rarely keep pace with the flippant advice of those, who, wholly without responsibility, are ready to direct with great confidence, and without reflection, the gravest affairs of the world from the standpoint of the smallest possible information.

The old Commissioners' schedule of maximum live stock rates, which became practically a dead letter by the tacit consent of our predecessors, was highly unsatisfactory and illogical. Though the amount of freights it took from shippers was not seriously complained of, it had been outgrown and needed revision. Adopted when stock cars were of a uniform length of twenty-eight feet, it took no account of the widely varying sizes of new cars. The managers of roads, in their intense competition for stock shipments, began years ago, to increase the size of their stock cars; and now these cars range all the way from twenty-eight to thirty-six feet in length; there being now, perhaps, more cars of thirty-five feet length than of twenty-eight feet, on which latter the car-lot rates were originally based. Under the old schedule, however, a car was a car, whether long or short. We are aware some roads actually added something to the Commissioners' rates for the longer cars; but this was without any recorded authority from the Commission; and we understand that the only decision ever made by the Commission, though unrecorded, was that the length of the car could not be considered in fixing the freight; that a car was a car, whatever the size.

So, if, on the one hand, the railroad could get no more for a long car, the shipper on the other hand could get no reduction for a short one, provided the Commissioners' tariff was observed. The mequality and injustice of such a tariff is obvious, and no doubt greatly assisted the old schedule to go into that state of "innocuous desuetude" where the present Commissioners found it upon their accession to office.

The objections then, to the old car-lot rates, may be summarized as follows:

1. That under them freights were paid unequally by the shippers.

2. That they created a demand for the longest cars only, shippers being unwilling to take small cars when long ones could be had under the Commissioners' tariff at the same rates.

3. That they held out a constant temptation for shippers to overcrowd cars, the freight depending entirely on the car, and not on the amount carried in it.

Such, briefly, was the situation of matters when the present Board came into office in March, 1889. Complaints had already begun to come in to the effect that the roads were charging more freight under their new system of hundred-weight rates than were charged under the old car-load system. It was further alleged that annoying delays were occasioned to shippers of stock who, it was said, were compelled to wait an unreasonable length of time for the weighing to be done at the scales in Chicago, thereby delaying shippers in getting their stock upon the market, and also further delaying them in getting their settlements with the commission men, who frequently had to wait for the freight bills to be made out, before rendering their accounts and settling with the shippers.

These complaints have been extensively investigated by the present Commissioners in a period extending for several months, and much testimony has been taken from the shippers of the State and from some officials of the companies. Much of this testimony was taken down and is on file, and much of it was not preserved in writing. Of course, there has not been full agreement among all the shippers who have testified; but the general expressions of shippers to the Commission have been to the effect that if rates by the hundred-weight were fixed at a point where they would not increase the revenue previously charged by car loads, and if a better system of weighing were adopted more accurate and expeditious than the present, they would not object to hundred-weight rates as such. In other words, the principal sentiment among shippers, as recorded in their testimony before us, seems to be that a system that bases the freight upon the amount in weight actually transported, is in itself fair. In this view the Commission entirely coneur.

We have been convinced, however, by the testimony taken, that the rates upon live stock were slightly raised to the domestic shippers by the several roads of the State when the hundredweight system was put in operation. We are further of the opinion that such live stock rates were amply high under the old system; and we have endeavored, in the distance tariff now published, to reduce the rates to what we think fair, taking into consideration the low price at which live stock is selling, and all other facts which should legitimately enter into the problem. The rates now fixed will certainly prove to be no higher on the average than the old car-load rates in force before the change was made, and with which shippers have almost universally expressed themselves as satisfied.

It is, of course, not possible to adopt a tariff upon the basis of weight which will, upon each individual car, yield the exact freight revenue that would be realized from the former car-load rates. Upon an exceptionally heavy load of stock the shipper will undoubtedly pay more freight than he would if his freight were computed simply upon the car; but upon the other hand, when he ships a lighter load he will pay less than he would have paid; and the freight will, in every case, be according to the service. The Commission have endeavored, upon a very full study of the question, and particularly of the statistics they have obtained, to hit upon what will prove a fair rate, and express the hope that the same may prove satisfactory alike to shippers and to the companies.

With reference to the complaints as to the inaccuracy of weighing and delays in getting stock upon the market and

making settlements, occasioned by the new system, the Commission is satisfied, from the evidence before them, that accurate weights cannot be obtained upon the track scales now largely in use; and, while the hundreds of freight bills that have been exhibited to the Commission appear to show that on the average the weights on actual shipments have been quite low enough, as ascertained by comparing the freight weights with the yard weights, and making necessary deductions for filling, yet it is desirable that a system of weighing should be used in which shippers can have perfect confidence, and which can be relied upon to wrong neither party to the transaction. If a shipper happens to get weights at one time several hundreds or even thousands of pounds too small, that fact is itself proof of looseness and inaccuracy, and that at another time the error may be the other way. Hence, the desirability of adopting an accurate system of weighing; one which, while ascertaining the weight accurately, will, at the same time, avoid the delays complained of, which the Commission are satisfied at the present time, in the case of most roads, are quite vexatious to shippers and not at all necessary under a proper plan of weighing.

We are clearly of opinion that the best way to get the weight of the live stock shipped, if the method were practicable, would be to weigh at the point of shipment, before loading the stock in the cars. The billing could then be made upon actual weight instead of arbitrarily putting in the bill a nominal weight which must be corrected at the destination upon the true weight being ascertained. This method would necessitate the putting in of scales at so many points, and at so great expense, that it was thought it would work an undue hardship to the roads; although if at all feasible, we are convinced it would be the proper plan. It would also fail in practice at many points where stock is shipped in small quantities, but at which no agent is kept, there being no need of an agent for other purposes. To compel the roads at such points to put in cattle scales, and also to keep there agents, whose sole business would be to weigh and bill a few cars of hogs and cattle each year, would amount to compelling the roads to lose money on the business of such points. This would not be just; and, being unjust, it would not be lawful. Besides, reasonable freight rates cannot in the end be gotten by means that would oppress or cripple railroads. A man cannot get his wagon out of the mud by cutting the hamstring of his horse, even though the horse be a balky one.

A plan of weighing which we deem both just and practicable is for the several roads to put in at the stock yards a series of scales upon a platform of the height of a car floor, alongside of which platform the trains can be drawn up to discharge the stock. There should be a scale for each car, so arranged that the gates of the pens enclosing the scales' opening, will form chutes, through which the stock from each car will pass on to the corresponding scale. Then, upon the opposite side of the scale from the car should be another gate, through which each car of stock when weighed could pass off into a pen, and thence into the yards as desired. Care should be taken to arrange the scale gates so that stock would not need to be headed about and driven back through the same gate at which they pass onto the scale. Fat stock, particularly cattle, and especially in hot weather, are greatly injured by any handling that worries and frets them. Hence, facilities should be used which will obtain the weight quickly, and then allow the stock to pass on in the same direction to the pen.

There is no reason why scales of the kind described would not weigh accurately. The results would be greatly better than can be gotten by the present method of catching the weight as the cars pass over track scales, in which process unequal heights of couplers often throw part of the weight of one car upon the wheels of its supporting neighbor, to say nothing of the disturbing influences of wind and weather. Then, too, with chute scales of the kind described there would be no waiting for the stock cars to be again passed over the scales to get the weights of empty cars for deduction, before the freight bills could be made out.

All things considered, scales of the kind described, we think, should be put in and used by the several roads. We think the roads themselves would profit by the use of such scales; for hundreds of freight bills have been exhibited to us which prove, when freight and yard weights are compared, that the weighers, perhaps in their anxiety to satisfy shippers and vindicate the system used, have actually made weights too low.

The Illinois Central and the C. & E. I. companies have in use scales which in most particulars correspond with those here recommended; and, as a result of their use, we have heard few complaints, either of inaccurate weights or of delays arising against these companies.

It is proper to observe before leaving this subject of live stock scales, that the railroad companies have contended with justice that it would be a hardship to require them at large expense to fit up facilities for weighing, such as we have recommended, unless some assurance were given that the weighing system would be continued, provided it proves, in other respects, efficient and satisfactory. The companies generally have expressed a readiness, if the hundred-weight system were adopted and legalized, to put in chute scales and all necessary facilities to make weights accurate and satisfactory. The uncertainty being now removed, it will be in order for these expressions to be put speedily into practice.

In consideration, therefore, of what we deem the inherent fairness of the weighing system, and the further fact that we believe the inconveniences and drawbacks brought to our notice in connection with the system are susceptible of being almost entirely removed, we have concluded to put in force a schedule of hundred-weight rates upon live stock, which will not, in the matter of freights, in any degree increase the burdens of shippers as they existed before the weighing experiment was commenced. We think our schedule will diminish rather than increase the former car-lot rates; but when we say this we, of course, have in view the average of rates taking the State over. Some roads may give better rates than others, and particular sections of the State, owing to local causes, have perhaps been accustomed to have better rates than others. Our field is the entire State, and our tariff is strictly a distance tariff, such as we think the law requires. We could not undertake to preserve the existing relative conditions in all places. If some who have been particularly favored heretofore do not find themselves benefited by this comprehensive and uniform tariff, they should remember there are many others who were less fortunate who will reap benefit from the new order. Other things being equal, "equality is equity," and this equity we have sought to establish.

We may add that the Inter-State Commerce Commission, after a hearing had at Jefferson City, Mo., upon this subject rendered an opinion approving of the hundred-weight system of computing freights upon live stock. Our action is therefore in harmony with the views of the National Commission on this subject and we have little doubt that the system will ere long become universal. All other freights are now based upon weights and there is surely the same reason for weighing live stock that there is for weighing other freights, provided the annoyances above commented upon are removed, which we think can easily be done.

We, however, have adopted this hundred-weight tariff with the understanding and upon the condition that the railroads of the State will make arrangements within a reasonable time whereby accurate weights may be obtained without unreasonable delays.

Should the roads fail to make such arrangements as will effect the object here stated, then the Commission may feel at liberty to return to a car-load tariff corresponding in amount of revenue yielded to the rates allowed in the tariff we have adopted.

We are not unaware that the system is even yet in an experimental stage, but have a strong belief that, with a tariff such as now proposed, and with such weighing facilities as the principal roads have proposed to adopt, shippers as well as railroad companies will like the system better than the old one. To pay in exact proportion to the extent of the services rendered, is certainly in itself equitable.

Should it be found on further actual practice, that those features of the weighing system which have not given satisfaction to shippers are not remediable, or being so, the roads fail or refuse to put in force the proper remedy, it will then be in the power of the Commission to adopt a more satisfactory system.

UNIFORM CLASSIFICATION.

In the last annual report the Commission referred to the disadvantages resulting from the use of varying classifications upon freight carried within the limits of our State.

The Official Classification, so called, applies on all freight originating east of Illinois and destined to points within this State; in other words, it governs on all through shipments from the east as far west as the Mississippi river; while the Western Classification which is used by the roads extending westward from Chicago and St. Paul, applies on business from all points in this State to the territory west thereof.

Thus, on all goods manufactured at eastern points and handled by dealers in Chicago or other distributing centers in Illinois, the Western Classification is applied when such articles are re-sold for delivery to points in trans-Mississippi states.

The same is true of commodities manufactured in this State and sold in competition with similar articles produced east of Illinois and forwarded to western destination. In all such instances wherein the Official Classification rates articles lower than does the Western, dealers in this State are at a disadvantage both as compared with competitors in the east and with those located at Mississippi river cities. For example, the Official Classification rates hardware third-class, while in the Western it is classified second. In Chicago and St. Louis respectively, are wholesale houses among the largest in the country engaged in the hardware business. Their supplies are obtained mainly in the east.

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Manifestly, then, the Chicago houses are at a disadvantage compared with their competitors in St. Louis because the latter have their goods carried two hundred miles further westward than Chicago houses at third-class rates.

With Chicago houses the lower rating stops at that city, and when they re-ship, it must be at second-class rates; hence, on shipments to common points west such as Kansas City or Omaha the Chicago dealer, on his sales, is subject to secondclass rates for a distance of two hundred miles more than is his competitor at St. Louis or other Mississippi river cities.

Furthermore, the same roads which charge Illinois houses second-class rates on their shipments join with eastern roads in carrying through Chicago. Peoria and other gateways, at third-class rates, as far as the Mississippi river. No sufficient remedy for such discriminations can be found except in the adoption by eastern and western roads of a uniform classification. The illustration made of hardware may with like force be applied in the case of all articles which by the Official Classification are rated lower than in the Western.

The disabilities herein indicated are greater in the case of citizens of this State than in any other section north of the Ohio river for the reason that in Illinois there is an over-lapping of freight classifications. East of Illinois the Official governs alike on through business and on shipments carried locally in each state; and west of the Mississippi river the Western Classification is applied on through shipments to the Rocky mountains and beyond, whereas in this State three classifications are in use—the Official, Western and the one prescribed by the Commission. Clearly it would simplify matters and facilitate the transaction of business were the rules and classification for the transportation of all freight carried into, within or out of this State to be made uniform.

Entertaining this view the Commission did not hesitate to encourage all efforts put forth by the railroad companies or by other authorities to inaugurate uniformity in the classification of freight.

In furtherance thereof the delegation from this State to the convention of Inter-State and State Railroad Commissioners held in Washington, D. C., last May, introduced a resolution reading as follows:

"*Resolved.* That the public interests will be best subserved by the adoption of a classification which shall be uniform for our whole country."

After a discussion which elicited much that was of interest, the proposition above recited was unanimously adopted.

The action thus taken is mentioned with cordial approval in the subsequent annual report of the Inter-State Commerce Commission.

Meantime a committee of traffic officers who, at the time of their appointment, were thought to fairly represent the railroads in the various sections of the country, had been authorized to unify the three leading freight classifications in use, namely: the Official, the Western and the Southern Railway and Steamship the latter being the one used by the carriers operating south of the Ohio river. That committee, at such intervals as their regular duties would permit, worked at the task assigned them for nearly two years. The result was the adoption by unanimous vote in May last of the unified classification the committee had succeeded in evolving.

Several weeks elapsed before corrected copies of the work performed could be laid before the interested roads; and it was not until late in the year that the roads most directly concerned began to vote upon the adoption of the committee's report. Meanwhile the demand for uniformity had grown so rapidly that the adoption of the report by the railroads apparently became a foregone conclusion. The committee proposed that it be made effective January 1, 1891, but the changes contemplated are so radical, extensive and far-reaching that a later date must be substituted, and it is now believed that it will not be possible to make it generally operative much, if any, before mid-summer 1891.

It should not, however, be expected that with the adoption of the proposed uniform classification every shipper of freight will find himself specially benefited. In uniting three varying classifications, necessarily some advances will be made, because if the committee entrusted with the duty, had, in the new work, given each article the lowest rating shown in either existing classification no discretion or judgment would have been requisite, but simply a tabulation of the lowest designations.

Such a classification would, of course, have been rejected by the railroad companies. Uniformity could not be accepted by them at so great a sacrifice. Concessions had to be made, but those, it was believed, should not proceed solely from the carriers.

Shippers should be expected to contribute somewhat to the procurement of a boon so estimable and convenient as the adoption of a uniform classification of freight throughout the greater portion of the country. This fact, those who find the articles (few in number) in which they are especially interested have been advanced, should bear patiently in mind.

Furthermore it should be remembered that any work of this kind must necessarily be largely tentative. The report of the committee on uniformity in freight classification expressly states that their work is by no means perfect or complete, and they provide a machinery to improve the classification from time to time, and eventually mould it into acceptable shape. Thus, provision is made for a permanent board of traffic officers who shall meet at stated periods to make changes in and additions to the classification.

Representations will doubtless be made to that board by organizations and individuals desiring modifications of the classification, and requests thus presented, it is to be presumed, will be given due consideration, and Mr. J. R. Wheeler, a member of this Commission has been appointed to represent the business interests of Illinois before said board.

A beginning in the direction of uniformity had to be made. It could not be inaugurated by the Inter-State Commerce Commission as the statute creating that body now stands; hence, it had to originate with the railroad companies; and by their representatives it was concluded the movement could best be started in the way it was begun and carried on.

GRAIN INSPECTION AND REGISTRATION.

The largest volume of business ever transacted in a single year by the grain inspection department at Chicago is that shown in the reports of the Chief Inspector and Warehouse Registrarfor the year ending October 31, 1890, exceeding, as it does, the hitherto phenomenal year of 1880 by over forty-eight million bushels.

The amount of grain stored in elevators, while it does not bear its usual ratio to the amount received, is still above the average for the past ten years.

The increase of business for the past two years, while it has had the natural effect of increasing the sum total of the department expenses, has reduced the cost of inspection per bushel to a point much below the average, and has made two reductions of the fees for inspection possible, one in 1889 from thirty-five cents to thirty cents per car and a further one recently made to twenty-five cents per car.

The position of the department in its relations to the public is one of peculiar difficulty and responsibility.

It stands as an arbitrator between buyer and seller, between producer and consumer, and practically fixes the value of the immense quantities of grain passing under its supervision. At times it is subjected to violent pressure in one direction from the receivers, and again in the contrary direction from eastern buyers, and to harsh, and often unmerited, criticism from both.

Under such conditions it is worthy of remark when the department is so conducted as to steer clear for any considerable time of Scylla on one side and Charybdis on the other and give satisfaction to both. Any failure to do this, however, is reflected with great accuracy in the office of the Commissioners, to whom any general complaint of deviation from the established standards in either direction is sure to come; and judging from the absence of such complaints, as well as the expressed favorable opinion of prominent grain merchants an \cdot others interested, we believe that the work of the department during the past year has been executed with unusual care and discretion, and the rules interpreted with commendable fairness and intelligence.

While no change of rules has been deemed advisable or necessary by us in adjusting differences of opinion between the department and the conflicting interests with which it has to deal, it has been our policy, as it has been the aim of the Chief Inspector, to secure such fair interpretation and impartial application of existing rules as to do exact justice to producer and shipper and at the same time to maintain the enviable reputation borne by the certificates of the department in the markets of this country and Europe. In this we believe we have been fairly successful.

The reputation of Chicago inspection, which has been of slow and steady growth, has practically changed the business methods of the grain trade wherever American cereals are consumed, and it is not too much to say that the pre-eminence of Chicago as a grain market is due in as great measure to the public confidence in the integrity and accuracy of the work of her inspectors as to her favorable location, her unsurpassed facilities or the push and enterprise of her citizens.

Large quantities of grain are annually diverted from other channels of transportation to those passing through Chicago in order to secure the advantages of "Chicago weights and inspection."

A sufficient evidence of the esteem in which the Chicago department is held by the trade, the confidence with which its decisions are accepted and the demand for its certificates as a basis for values in other markets, is found in the history of the state inspection established some two years ago in Joliet.

Under the same state supervision as Chicago, and governed by precisely the same rules, accurately interpreted and faithfully administered, it has thus far failed to realize the expectations of its promoters in attracting the grain to which they felt their facilities entitled them.

There is little question that much of the grain which now makes its laborious way in immense quantities over the burdened tracks and through the crowded yards of Chicago in order that it may reach its destination with its quality certified by an authority upon which the trade has learned to depend, might be handled more promptly and quite as economically by way of Joliet, if public confidence in the inspection at that point were as thoroughly established as the quality of the work done there would warrant.

There have been requests for the establishment of branches of the Chicago inspection at other points in the State upon direct eastern lines of transportation, the purpose being to secure the benefit of Chicago inspection without diverting the grain from its natural eastward channels.

While the establishment of branches at some of these points would no doubt be a benefit to the public, and certainly so to shippers along the lines of roads in question, there seems to be no warrant in the law for any extension of the Chicago system beyond the limits fixed by the statute, and there is no way in which other points in the State may secure state inspection of grain except through the formation of independent systems.

THE SITUATION AT EAST ST. LOUIS.

There are at East St. Louis a number of capacious elevators through which large quantities of grain annually pass.

No department of our own system of inspection having ever been established there, the work is done by the officials of the State of Missouri, sent over from St. Louis for that purpose.

-3 R. R.

It is, we think, a subject proper for legislative consideration whether or not the State of Illinois should, by proper enactment, assert its own jurisdiction over an important and extensive business which is thus transacted within the boundaries of the State.

PERIODICAL WEIGHING.

The present warehouse law, while it provides for the inspection of grain as a condition precedent to its storage in any elevator of Class "A", and for a system of reports by which the Warehouse Registrar may know just what receipts are issued and canceled, provides no means of arriving at the quantity of grain received and delivered except through the figures of the elevator weighman, and places within reach of the department no check whatever upon the accuracy of his work.

While we do not regard it in any sense probable, it is certainly possible for a warehouseman, under existing arrangements, by manipulating the figures of the weighman's tickets, to withdraw large quantities of grain without proper cancellation of receipts for the same. The Warehouse Registrar in his report recommends that such amendment be made to the law as shall provide for a balancing of the books and weighing of grain in store as often as once in each year, at the most convenient time, that his accounts may be verified by an actual inventory of the property under the supervision of the state officer. In this recommendation we most heartily concur.

BONDS OF WAREHOUSEMEN.

During the year it has come to our knowledge that the provision in the statute requiring the proprietor, lessee or manager of any warehouse of Class "A", before transacting any business in such warehouse, to give bonds in the sum of 10,000 for the faithful performance of his duty to the public, was being so construed as to allow a firm managing or owning several different warehouses to operate them all under a single bond.

A careful study of the matter convinced us that such construction was subversive of the plain intent of the law, and we adopted an order requiring new bonds to be given, one for each separate warehouse.

We are pleased to note in the report of the Warehouse Registrar that this requirement of the Commission has in all cases been promptly complied with.

CLAIMS FOR DAMAGES ON ACCOUNT OF FAULTY INSPECTION.

A question of considerable importance has arisen, incident to the inspection of grain. It had long, we are informed, been the practice of this Commission to pay, from the funds of the inspection department, claims for damages arising from the faulty

inspection of grain. That is to say, under the former practice, where an inspector made a blunder in the inspection of grain whereby the owner or the party buying the grain on certificate was damaged, the Commission recognized the damage so arising as a valid claim against the inspection department, and paid it from the funds of that department, which funds are derived from inspection fees. The immediate predecessors of the present Commissioners, we are advised, doubted the power of the Commission to appropriate the funds of the inspection department to the purpose of paying claims. No express ruling was, however, placed on record so far as we are able to find. A particular claim of this nature is now pending before the present Commission, a formal decision of which has not been rendered, although the Commission has been of the opinion that they are not empowered to pay such claims from the funds arising from inspection. The case referred to is as follows:

Franklin, Edson & Co., of New York, claim the sum of \$1,156.70, required, they say, to make them whole on a certain cargo of wheat purchased by them in Chicago on certificates as "No. 2 red winter," and which on its arrival in New York proved to be in fact of a quality much inferior to that named in the certificate. Proofs were submitted to us which convinced us that the inspection was faulty. The inspector at fault was an old employe of the department, and had, until this occurrence, been regarded as competent and reliable. He has since left the force. The decisive question arising upon the facts is, has this Commission any power under the statute to devote the funds of the inspection department to the payment of damages arising from erroneous inspection? We are convinced that the answer to this question must be found in the statute wherein our duties are prescribed, and whence all the powers of the Commission are derived. Since it has been strenuously urged upon us that to deny this claim, and to refuse to become guarantors for the correctness of our inspection, will seriously discredit Chicago inspection in the markets of the world, we think it proper to state the law as we understand it, for your information and that of the General Assembly.

Section 14 of the act in relation to warehouses contains three provisions which, construed together, seem to us decisive of this question. It is first provided that each inspector shall give a bond in the penal sum of \$5,000, with sureties, the condition of which bond shall be:

"That he will faithfully and strictly discharge the duties of his said office of inspector according to law and the rules and regulations prescribing his duties: and that he will *pay all damages to any person or persons who may be injured* by reason of his neglect, refusal or failure to comply with the law and the rules and regulations aforesaid."

It is next provided that the Commission

"Shall have power to fix the rate of charges for the inspection of grain, and the manner in which the same shall be collected, which charges shall be regulated in such a manner as will, in the judgment of the Commissioners, produce sufficient revenue to meet the necessary expenses of the service of inspection, and no more."

Finally it is provided at the end of said section 14, that

"All necessary expenses incident to the inspection of grain, and to the office of Registrar, economically administered, including the rent of suitable offices, shall be deemed expenses of the inspection service, and shall be included in the estimate of expenses of such inspection services; and shall be paid from the funds collected for the same."

These provisions seem to leave the case in little doubt. The Commission has no funds at its disposal, except those accruing from inspection fees. We are commanded to fix those fees so as to produce "sufficient revenue to meet the necessary expenses of the service of inspection, and no more." Then, as if to leave no doubt as to what the term "necessary expenses" should embrace, it was further specified that "all necessary expenses incident to the inspection of grain, and to the office of Registrar, economically administered, including the rent of suitable offices, shall be deemed expenses of the inspection service."

It is a familiar legal maxim that the naming expressly of certain things, in an act such as this, has the effect of excluding other things which are not named. When telling us what should be "included in the estimate of expenses" and "paid from funds collected for the same," the legislature failed to mention damages arising from erroneous inspection. Unless, therefore, such damages may be said to be a "necessary expense incident to the inspection of grain," they are not authorized to be paid from the funds of the department. These two clauses of the statute, if standing alone, would, therefore, seem to be decisive of the question. Damages of this kind can hardly be called a "necessary expense incident to the inspection of grain."

But all possibility that the legislature intended to include such damages as an "expense" of the department is rebutted, it seems to us, by the fact that in the clause of the statute first quoted above, express provision is made for the payment of such damages by the inspector and his sureties. The condition, prescribed by statute for the bond of the inspector, is exclusively for the protection of "any person or persons who may be injured." It is a noticeable, and it would seem, decisive fact that the bond is not for the protection of the inspection fund in case the Commission should pay such damages, but runs entirely to third parties who may be injured. Should the Commission step in and pay this inspector's liability, it is doubtful if the language of the bond, as prescribed by the statute, would admit the Commission to reimburse the department funds by a suit against the inspector's sureties. That the inspector and his sureties in this case are liable to Franklin, Edson & Co., upon this bond, provided they can prove their case in court, admits of no question. This bond was taken to meet just such a case as this and for no other purpose.

Much has been urged upon the score of public policy. We have been exhorted to adopt a rule for such cases that will invite the confidence of the public, etc. To this we can only say the Commission is not at liberty to set up any policy unless that policy finds warrant in the statute. We do not control the general policy of the State touching such questions. We can exercise the powers given us by statute, and no others, and it is a rule too well settled to require the citation of authorities that the powers of a commission, such as this, cannot be extended beyond what is expressly granted, or necessarily implied in the carrying out of the objects of the law. If we are to levy sufficient inspection fees for damages and apply the funds so raised to that purpose, it seems to us the legislature ought to say so. As the case stands, the legislature has, in effect, said exactly the contrary. It has said that bonds shall be taken with sureties from inspectors conditioned for the payment of damages to persons injured, and that the revenue raised from inspection fees shall be confined to the amount needed for the "necessary expenses" of the department. No bond is provided to indemnify the State in case it pays these damages. If it be our duty under the law to pay such damages out of fees collected, then the taking of bonds from inspectors for the protection of persons dealing with the department, is a mere idle ceremony, having, it seems, no purpose at all.

Such is the view the Commission were constrained to take of the law as it now stands; but they have made no formal ruling upon this claim, owing to the urgent representations made that a ruling of the kind above indicated would be injurious to the service. In this view your efficient Chief Inspector, Hon. P. Bird Price, seems from his report, which we print herewith, to concur. The claim of Franklin, Edson & Co. has therefore been referred to the Attorney General for his opinion upon the question as to whether the Commission has power under the statute to devote the funds of the inspection department to the payment of claims of this kind. We are daily expecting the opinion of the Attorney General upon that question, and had it been delivered before the time for our report to go into your hands, the necessity of mentioning this subject might possibly have been avoided, as the Commission would very cheerfully acquiesce in any construction the Attorney General of the State might give to the statute. Since, however, some action of the legislature may become necessary in case the opinion of the Attorney General should be adverse to the claim, we have thought proper to thus set forth the state of the law and our views thereon, in our report to your Excellency. When the Attorney General's opinion is received we will take measures to advise your Excellency and the General Assembly if thought necessary, as to the then status of the case, to the end that legislation may be had empowering the Commission to pay such claims

if they are deemed a legitimate expense of the inspection service, and are not, in the opinion of his honor, the Attorney General, already sufficiently provided for in the statute as it now stands.

TABULATED STATISTICS.

In the body of this report will be found seventeen tables which give tabulated information on the subjects indicated in their titles. These titles are as follows:

Table I. Classification of Railroads and Mileage.

Table H. A. Capital Stock, Bonds and Equipment Trust Obligations for Mileage Owned.

Table II. B. Capital Stock, Funded Debt and Current Liabilities for Mileage Operated.

Table III.Income Account, whole line.Table IV.Total Earnings from Operations in Illinois. Table IV.

V. Total Earnings and Income in Illinois. Table

 Table VI. Operating Expenses in Illinois.

 Table VII. Operating Expenses, Taxes and Average Earnings Per Mile
 of Road in Illinois.

Table VIII. Passenger and Freight Traffic in Illinois.

Table IX. Classified Freight Traffic in Illinois.

Table X. Employés and Salaries, whole Line and in Illinois.

Table XI. Average Daily Compensation of Employés.

Table XII. Description of Equipment. whole line.

Table XIII. Rails, Ties, Ballast, Bridges, etc., in Illinois.

Table XIV.Consumption of Fuel by Locomotives, whole line.Table XV.Accidents in Illinois.Table XVI.Taxes Paid in Illinois in 1888, 1889 and 1890.

Table XVII. Income Account Leased Lines, whole line.

Further along in this report will be found in full the tables above mentioned, a summary of which is as follows:

TABLE I. CLASSIFICATION OF RAILROADS AND MILEAGE.

The railway mileage in the state of Illinois on June 30, 1890, was as follows:

	Miles.	Miles.
Main llne Second, third and fourth tracks	10,163.46 925.77 2,928.34	
Total		14,017.57

The following is a comparison with the mileage as reported for the year ending June 30, 1889:

Year.	Main Line.	Second, third and fourth tracks.	Sidings, Etc.	Total.
1889 1890	9,936,63 10,163,46	755.67 925.77	$2,804.68 \\ 2,928.34$	13, 496. 98 14, 017. 57
Increase	226,83	170.10	123.66	520.59
Per cent. of increase	2.28	22.51	4.41	3.78

The length of new road built during the year ending June 30, 1890, was 222.65 miles, an increase over the new road built during the period covered by our last report of 151.24 miles, or 212 per cent.

In this connection it may of interest to state that Illinois has the largest railway mileage of any state in the union. In the report of the Inter-State Commerce Commission for the year 1889, the proportion of the railway mileage in Illinois to the total mileage in the United States was 6.23 per cent., and the number of square miles per mile of railway was given as 5.76.

TABLE II-A. CAPITAL STOCK, BONDS AND EQUIPMENT TRUST OBLIGA-TIONS FOR MILEAGE OWNED.

This table shows the railway capital of the railroads in Illinois to be as follows:

Capital stock Bonds Equipment trust obligations	1,44+,505-41	
Total		\$1,769,620,864 04
Capital stock per mile of road Bonds per mile of road Equipment trust obligations per mile of road		
Total		53,757 89

These figures shows an increase of railway capital over the report of last year of \$198,144,498.08.

This table also shows the number of stockholders in Illinois to be 1,399; number elsewhere, 30,398; and amount of stock held in Illinois, \$32,480,885.00, or 3.83 per cent. of the total capital stock.

TABLE II-B. CAPITAL STOCK, FUNDED DEBT AND CURRENT LIABILI-TIES FOR MILEAGE OPERATED.

This table shows the capital stock, funded debt and current liabilities for mileage *operated* to be as follows:

Capital stock Funded debt Current liabilities	\$930,784,536 78 997,407,939 64 27,505,798 37	
Total		\$1,955,698, 274 79
Total amount per mile of road operated		52,783 18

As compared with last year these figures show a decrease in the current liabilities of \$2,092,484.65.

TABLE III. INCOME ACCOUNT-WHOLE LINE.

This table shows the following facts:

This table also shows that during the year there were 12 operating railroad corporations paid dividends, amounting to \$19,127,823.20. In 1889, 11 corporations paid dividends amounting to \$16,978,464.66. The increase in the amount of dividends paid during 1890 over that of 1889, is \$2,149,358.54, or 12.66 per cent.

The following tables show the names of the operating railroads paying dividends, and the comparative rates and amounts paid during the years 1889 and 1890.

Name of Company.	1889.		Percent. on Pref. Stock.
Chicago and Alton Chicago and Eastern Illinois. Chicago and Northwestern Chicago, Burlington and Quiney. Chicago, Burlington and Quiney. Chicago, Milwaukee and St. Paul. Chicago, Rock Island and Pacific. Illinois Central. Lake Shore and Michigan Southern. Michigan Central. Rock Island and Peoria. St. Louis, Alton and Terre Haute. Total.	$\begin{array}{c} 3,444,504\ 00\\ 3,055,684\ 00\\ 972,490\ 50\\ 2,307,707\ 00\\ 2,200,000\ 00\\ 2,473,325\ 00\\ 749,528\ 16\\ 75,000\ 00\\ 24,684\ 00\\ \end{array}$	7 4 5.5 5.5 5	4 1

Name of Company.	1890.	on Com.	Percent. on Pref. Stock.
Chicago and Alton Chicago and Eastern Illinois. Chicago and Northwestern Chicago, Burlington and Quiney. Chicago, Milwaukee and St. Paul. Chicago, Rock Island and Pacific. Clev., Cin., Chicago and St. Louis. Illinois Central. Lake Erie and Western. Lake Shore and Michigan Southern. Michigan Central. Rock Island and Peoria. Total.	3, 437, 667, 00 1, 296, 829, 00 1, 846, 229, 00 1, 320, 000, 00 2, 400, 000, 00 355, 200, 00 2, 473, 325, 00		7 2.5 3.5 5

LEASED OR SUBSIDIARY LINES PAYING DIVIDENDS.

In addition to the dividends paid by operating railroads, as shown in Table III., the following leased or subsidiary lines paid dividends during the year out of the net income from lease of road. See Table XVII.

Name of Company.	Amount paid.	Rate per cent. on Com. Stock.	cent. on Pref.
Joliet and Chicago Mississippi River Bridge Chicago and Western Indiana. Peoria and Bureau Valley Joliet and Northern Indiana. Pittsburgh, Ft. Wayne and Chicago. Belleville and Southern Illinois.	$21,000 \ 00 \ 150,000 \ 00 \ 135,000 \ 00 \ 24,000 \ 00$		7 7 7 4

Table III. also shows that the Centralia and Chester, Fulton County Narrow Gauge, and St. Louis and Peoria roads failed to earn enough to pay their operating expenses.

TABLE IV. TOTAL EARNINGS FROM OPERATIONS IN ILLINOIS.

The total earnings from operation for the year are shown in the following table:

Passenger department— From passengers From mails From express and extra baggage From other sources	\$14,211,044 93 1,579,848 98 1,479,541 07 193,431 79	
Total		\$17,463,866 77
From freights From other sources Total From miscellaneous sources		\$44,133,597 31 1,892,789 23
Total earnings from operation in Illinois		\$63, 490, 253 31

In the passenger department these figures show an increase of \$28,974.76 in the receipts from passengers; a decrease of \$35,994.93 in the receipts from mails; a decrease of \$38,892.30in the receipts from express and baggage; an increase of \$15,-093.27 in the receipts from other sources, or a net decrease in the passenger department of \$30,819.20 as compared with the business of last year.

In the freight department these figures show an increase over the business of last year of \$152,905.37 in the receipts from other sources; an increase of \$4,274,609.54 in the receipts from freights, or a net increase in the freight department of \$4,427,-514.91. The receipts from miscellaneous sources show a gain over the business of last year of 3364,076.23; the total increase in the earnings from operation in Illinois over the business of last year is 4,760,771.97.

The following table shows the earnings of the passenger and freight departments in Illinois for the last four years:

	Passenger.	Freight.
1887		\$38,524,367 55 39,652,094 45 39,706,082 40 44,133,597 31

TABLE V. TOTAL EARNINGS AND INCOME IN ILLINOIS.

The total earnings and income in Illinois for the year are indicated in the following table:

Total earnings from operation Interest on bonds owned Dividends on stocks owned Miscellaneous income, less expense	$\begin{array}{r} 482,365 & 60 \\ 323,582 & 68 \end{array}$
Total earnings and income in Illinois	\$65, 471, 494 81

This is an increase over the total earnings and income in Illinois of last year of \$2,301,398.62.

The following table shows the total income in Illinois for the last four years:

1887	\$56,860,287 34
1888	61,333,515 45
1889 1890	63,170,096 19 65,471,494 81
	00, 111, 101 01

TABLE VI. OPERATING EXPENSES IN ILLINOIS.

The operating expenses in Illinois for the year was \$40,059,-894.30, divided as follows:

	Chargeable to Pas. Traffic.	Chargeable to Frt. Traffic.
Maintenance of way and structure Maintenance of equipment Conducting transportation General expenses Total.	$ \begin{array}{r} 1,811.827 & 70 \\ 6,420,423 & 68 \\ 1,614,385 & 31 \\ \hline \end{array} $	4,590,129 18 14,497,094 27 2,682,766 63

This is an increase in the operating expenses over last year of 767,869.87, or less than 2 per cent.

The operating expenses in Illinois for the last four years are as follows:

1887	
1888 1889	39,292,024 43
1890	40,059,894 30

TABLE VII. OPERATING EXPENSES, TAXES AND AVERAGE EARNINGS PER MILE OF ROAD IN ILLINOIS.

This table shows the following facts:

Average passenger earnings per train mile

Only those roads which have made complete detailed reports are taken into consideration in arriving at the above averages.

In last year's report certain average earnings, expenses, etc., per mile of road were given, and for the purpose of comparison with those of this year they are herewith repeated below:

Percentage of operating expenses to earnings Average passenger earnings per mile of road operated Average freight earnings per train mile. Average freight earnings per mile of road operated. Average freight earnings per train mile. Average gross transportation earnings, including mail, express, baggage, etc., per mile of road operated Average expenses per mile of road operated. Net earnings per mile of road operated.	
Net earnings per mile of road operated	1,913-76

TABLE VIII. PASSENGER AND FREIGHT TRAFFIC IN ILLINOIS.

The following important facts are shown in this table:

Passenger traffic— Number of passengers carried earning revenue Number of passengers carried one mile Average distance carried—miles Average amount received from each passenger—cents Average receipts per passenger per mile—cents Estimated cost of carrying one passenger one mile—cents	554,960,062 25.12 52.9 2.066
Freight traffic— Number of tons carried earning revenue Number of tons carried one mile Average distance haul of one ton—miles. Average amount received for each ton—eents. Average receipts per ton per mile—eents. Estimated cost of carrying one ton one mile—cents.	4,271,377,794 102.45 85.23 0.832

Owing to the failure of several of the roads which do a large passenger and freight business to furnish the necessary data it is impossible to give estimates and averages which would apply to all the roads in the State, and in arriving at the above averages and estimates only those roads which have made complete detailed reports are taken into consideration.

In this connection it may be interesting to show the passenger and freight traffic as reported in last year's report, and for the purpose of comparison with that of this year it is here given as follows:

Passenger traffic— Number of passengers carried earning revenue Number of passengers carried one mile. Average distance carried—mile Average amount received from each passenger—cents Average receipts per passenger per mile-cents Estimated cost of carrying one passenger one mile—cents	586, 610, 364 26, 25 53, 5 2, 038
Freight traffic— Number of tons carried earning revenue Number of tons carried one mile. Average distance haul of one ton—miles Average amount received for each ton—eents Average receipts per ton per mile—cents Estimated cost of carrying one ton one mile.	3,829,299,316 98,43 82,3

TABLE IX. CLASSIFIED FREIGHT TRAFFIC IN ILLINOIS.

This table shows that the railroads carried in Illinois during the year 50,796,636 tons of freight, an increase over the business of last year of 3,857,507 tons, or 8.21 per cent.

The following is a classified comparison of the tonnage carried in Illinois in the years 1889 and 1890:

	1889. Tons.	1890. Tons.
Products of agriculture Products of animals. Products of mines Lumber Merchandise. Manufactures. Ice. Miscellaneous. Totals	$\begin{array}{c} 9,985,424\\ 3,453,918\\ 14,360,114\\ 3,099,581\\ 3,749,310\\ 4,323,346\\ 506,682\\ 7,460,754\\ \hline \\ 46,939,129\end{array}$	$11,006,271\\4,120,451\\14,944,966\\3,176,001\\3,189,436\\5,584,588\\642,737\\8,132,186\\50,796,636$

TABLE X. EMPLOYÉS AND SALARIES, WHOLE LINE AND IN ILLINOIS.

This table shows that during the year there were 182,680 employés on the entire lines of the railroads doing business in Illinois, whose yearly compensation was 107,705,205.49. It also shows that of the total number of employés there were in Illinois 57,435, whose aggregate yearly compensation was 33,-991,986.16.

Compared with last year these figures show an increase of 4,460 employés in Illinois, and an increase in the amount of compensation paid them of \$2,388,162.01.

The following table shows the division of the 182,680 employés above referred to:

General officers	
General office clerks Station agents.	
Other station men	17,768
Enginee: s	
Firemen	
Other train men	13,035
Machinists Carpenters	
Other shopmen	24,155
Section foremen Other trackmen	
Switchmen, flagmen and watchmen	10,561
Telegraph operators and dispatchers	5,507 413
Employés, account floating equipment	16,383
Total	182,680

TABLE XI. AVERAGE DAILY COMPENSATION OF EMPLOYÉS.

This table shows the average daily compensation of the employés as enumerated in table X. An examination of the same will show that the compensation of the same class of employés varies widely on different roads.

TABLE XII. DESCRIPTION OF EQUIPMENT, WHOLE LINE.

Particular attention is called to this important table. In it will be found the number of locomotives owned by the roads classed as passenger, freight and switching; the number of cars owned, classed as cars in passenger, freight and company's service; the number of cars contributed to fast freight line service and the number of cars leased. It also shows what portion of the equipment is fitted with train brakes and automatic couplers. A summary of this table is as follows:

CLASS OF EQUIPMENT.	Number.	Number fitted with train brake.	Number fitted with automatic coupler.
Locomotives— Passenger. Freight Switching. Totals	$ \begin{array}{r} 1,746 \\ 3,970 \\ 1,240 \\ \hline 6,956 \end{array} $	4 383	
Cars—. Passenger service Freight service Company's service Fast freight line service Totals		4,660 11,481 52 250	4,494 16,549 9 1,102
Total cars and locomotives owned Cars and locomotives leased Total equipment		20, 826	22,154

The foregoing shows the following facts in regard to safety appliances:

Of the locomotives 63 per cent. are equipped with train brakes, of the cars in passenger service 97.67 per cent. are equipped with train brakes, and 94.19 per cent. with automatic couplers; of the cars in freight service 5.54 per cent. are equipped with train brakes, and 7.99 per cent. with automatic couplers, and of cars in company's service less than one per cent. are equipped with safety appliances.

It would seem appropriate in this connection to show what kind of couplers are in use, and the number of each kind used. The following is such a statement:

Style of Coupler.	No. used.
Ames. Ames-Janney Blackstone. Cowell Dowling Gould Hinson Janney. Janney. Janney. Janney. McCree M. C. B McCree Miller Skinner. Schroyer	$\begin{array}{c} 64'\\ 3,77'\\ 13\\ 19(\\ 6(\\ 1,60)\\ 50)\\ 10,34'\\ 10,34'\\ 10\\ 1,29'\\ 10\\ 1,29'\\ 158\\ 3,37'\\ (1,29)\\ 158\\$
Thurmond Unclassified Total	122,15

TABLE XIII. RAILS, TIES, BALLAST, BRIDGES, ETC., IN ILLINOIS.

The following facts are shown in this table:

Iron rails on road in Illinois, miles	$\begin{array}{c} 8,982,19\\ 74,555,11\\ 3,112,789\\ 2,459\\ 1,477,70\\ 891,80\\ 4,412,08\\ 560,64\\ 4,043,83\\ 81,83\\ 173,92\\ 1,620\\ 621\\ 1,399\\ 148\\ \end{array}$
Number. Aggregrate length in feet.	9,237 772,527

TABLE XIV. CONSUMPTION OF FUEL BY LOCOMOTIVES-WHOLE LINE.

This table gives a detailed statement of the fuel consumed by the different classes of locomotives, the number of miles run by such locomotives, and the average pounds consumed per mile. From it will be seen that the locomotives on the lines of the roads reporting this information consumed 9,556,663 tons of fuel in running 252,958,280 miles, or an average of 75.55 pounds per mile.

This table also shows that the cost of coal at distributing points ranged from 60 cents to \$2.75 per ton, and the cost of wood ranged from 91 cents to \$4 per cord.

TABLE XV. ACCIDENTS IN ILLINOIS.

A summary of this table, and a comparison of the same with the accidents as shown in last year's report, is as follows:

	1890.		1889.	
	Killed.	Injured.	Killed.	Injured.
Passengers . Employès Others Totals	$ \begin{array}{r} 27 \\ 176 \\ 365 \\ 568 \end{array} $	136 1,059 369 1,564	25 172 360 557	$ \begin{array}{r} 116 \\ 1,188 \\ 402 \\ \hline 1,706 \\ \end{array} $

From the above it will be seen that during the year there was an increase of 11 in the number of persons killed, and a decrease in the number injured of 142.

The following is a division of the kind of accidents during the year:

	Killed.	Injured.
Coupling and uncoupling cars Falling from trains and engines Overhead obstructions. Collisions Derailments Other train accidents. At highway crossings At stations Other causes	$17 \\ 16 \\ 102$	$\begin{array}{r} 433\\162\\14\\95\\52\\152\\70\\57\\529\end{array}$
Totals	568	1,564

TABLE XVI. TAXES PAID IN ILLINOIS IN 1888, 1889 AND 1890.

The amount of taxes paid by the railroads in Illinois during the year is shown by this table to be \$3,021,904.49, an increase over the amount paid last year of \$195,915.77. This table also gives a comparison of the taxes paid in Illinois in the years 1888, 1889 and 1890. The following railroads making reports for the year ending June 30, 1890, were in the hands of receivers:

Chicago and Atlantic.

St. Louis and Chicago.

The Indianapolis, Decatur and Western Railway was in the hands of trustees.

For the above summary of statistics, together with the fuller tables printed elsewhere, we take occasion here to acknowledge our indebtedness to the untiring efficiency of our Secretary, Mr. James H. Paddock, whose labors during the past year have been invaluable to the Commission, and daily grow more efficient with his increasing experience. In the preparation of statistics, as well as in his other important labors, Mr. Paddock has been ably assisted by our stenographer, Mr. F. C. Dodds, to whom we also here make due acknowledgment.

APPROPRIATIONS,

It only remains to submit our financial statement, which will be found below. We have not, during the past year, been under the necessity of expending any of the funds appropriated for "suits and investigations," for counsel fees; and the unexpended balance of this fund, as indeed that of other funds, will be found to be somewhat larger than last year. From this it would not be safe to conclude that smaller appropriations for the next two years might safely be made. An emergency is liable at any time to arise which would require all, or more, than the amount that was appropriated by the last General Assembly. It has been sufficiently demonstrated that if more funds are appropriated than are needed the Commission may be safely trusted not to expend the surplus needlessly, simply because it is at hand, but will see that such surplus remains in the treasury and lapses unexpended at the time fixed by the statute. We therefore ask that appropriations be made for the use of the Commission in the same amount and for the same purposes, as those made by the last General Assembly.

In this connection we would add that in our judgment an additional appropriation, placed at our disposal, for the purpose of enabling us to employ at a liberal salary, a competent and experienced civil engineer to be designated as the "Consulting Engineer" of the Commission, would be an expenditure wisely made. There is enough work to keep an expert of this kind fully employed under the direction of the Commission. His chief business would be the inspection of railroads, bridges, viaducts and other structures, and through his labors a complete record of the physical condition of all structures and the progress of all betterments could be kept in the office of the Commission. Mr. Chas. Hansel, who has for the past year and a half sustained the relation of "Consulting Engineer" to the present Commissioners, and so designated by us, is, as explained in our last report, not upon the Commissioners' pay-roll, but has been paid by the job for the work actually done under our direction. We think such an expert might with profit be added to the regular force of the office.

The financial statement above alluded to is as follows:

OFFICE EXPENSES.		
Unexpended appropriation December 1, 1889 Appropriation for year ending June 30, 1891		\$3,309-31 4,000-00
Total Secretary's salary Janitor's salary Printing and binding Postage stamps Railway periodicals, law books and newspapers Express, freight and drayage Telegraph Telephone Labor Stationery and typewriter supplies Furniture, repairs and supplies Lee Washing towels for office	$\begin{array}{c} 600 \ 00 \\ 373 \ 15 \\ 100 \ 00 \\ 46 \ 05 \\ 132 \ 80 \\ 48 \ 00 \\ 8 \ 00 \\ 34 \ 60 \\ 81 \ 65 \\ 30 \ 00 \\ 12 \ 00 \end{array}$	\$7,309 31
Total		\$3,146 81
Unexpended balance December 3,1890		\$4,162 50
SUITS AND INVESTIGATIONS.		
Unexpended appropriation December 1, 1889 Appropriation for year ending June 30,1891		$\substack{\$4,512\\5,000}$
Total Suits, investigations and expenses Clerk hire and stenographer	\$1,922 63 1,500 00	\$9,512 88
Total		3,422-63
Unexpended balancé December 3, 1890		\$6,090 25
RAILROAD MAPS.		
Unexpended appropriation December 1, 1889 Appropriation for year ending June 30, 1891		
Total Expended for maps	\$1,017.50	\$2,400 00
Total		1,017 50
Unexpended balance December 1,1890		\$1,382 50
SCHEDULES AND CLASSIFICATION.		
Unexpended appropriation December 1,1890		\$2, 87 5-50

FINANCIAL STATEMENT.

Respectfully submitted,

John R. Wheeler, Isaac N. Phillips, W. L. Crim, *Commissioners*.

STATISTICAL TABLES.

EXPLANATORY NOTES.

In the following statistical tables the principal operating road in an operating system and those which operate on their own account appear in alphabetical order; all subordinate roads are grouped under the roads to which they are leased or otherwise controlled, and are indented.

Chicago & Calumet Terminal — Embraces but one month's business—a switching business.

Chicago & Northern Pacific—Leased to the Wisconsin Central Company and the Wisconsin Central Railroad Company on April 1, 1890, and the operations, etc., are included in the report of the Wisconsin Central lines.

Chicago, Rock Island & Pacific—Report for the lines east of the Missouri river.

Grand Tower & Cape Girardeau — Report for the seven months ending June 30, 1890.

Ohio, Indiana & Western—Report for the six months ending December 31, 1889, at which time the road was sold under order of the U.S. Court and reorganized as the Peoria and Eastern Railway Company.

Pawnee-Report for the six months ending June 30, 1890.

Peoria & Eastern—Report for the six months ending June 30, 1890.

St. Louis & Chicago—Includes reports of the St. Louis & Chicago Railroad and the St. Louis & Chicago Railway.

St. Louis & Peoria — Report for the eight months ending June 30, 1890.

Terre Haute & Peoria—The mileage in Indiana is so small that no division of its accounts is kept as between Indiana and Illinois, and it has submitted its report of operations, etc., as being wholly within the State of Illinois.

COMPARATIVE TABLES.

	1	2
NAME OF COMPANY.	DATE OF FILING REPORT. (OPERAT- ING OR FINAN- CIAL.)	How Operated.
1 Atchison, Topeka & Santa Fe * 2 Chicago, Santa Fe & California 3 AtchTop. & Santa Fe in Chi 4 Miss. R. R. & Toll Bridge Co 5 Baltimore & Ohio 6 Baltimore & Ohio	Dec. 8,1890 O.&F. Dec. 8,1890 F. Dec. 8,1890 F. Dec. 8,1890 F. Nov. 21,1890 O.&F. Nov. 21,1890 F.	AT. & S. Fe R. R. Co B. & O. R. R. Co
 7 Belt Railway of Chicago. 8 Centralia & Chester. 9 Chicago & Alton. 10 Joliet & Chicago. 11 Mississippi River Bridge Co. 12 Chicago & Atlantic. 13 Chicago & Columet Terminal (5) 	Sept. 6,1890 O.&F. Nov. 29,1890 O.&F. Sept. 17,1890 O.&F. Sept. 17,1890 F. Sept. 17,1890 F. Nov. 8,1890 O.&F. Nov. 8,1890 O.&F.	Belt Ry. Co. of Chicago C. & C. R. R. Co. C. & A. R. R. Co. C. & A. R. R. Co. C. & C. T. Ry. Co. Volney T. Malott, receiver
 1 Chicago & Eastern Illinois 15 Chicago & Western Indiana 16 Evansville, Terre Haute & Chi 17 Chicago & Grand Trunk. 18 Grand Trunk Junction 19 Chicago & Illinois Southern 	Sept. 17, 1890 O. &F. Sept. 6, 1890 F. Oct. 13, 1890 F. Sept. 15, 1890 O. &F. Sept. 15, 1890 F. Aug. 28, 1890 F.	C. & E. I. R. R. Co C. & E. I. R. R. Co C. & E. I. R. R. Co C. & G. T. Ry. Co. Danville Elevator Co
 Chicago & Iowa Chicago & Northwestern (I) Chicago & Northern Pacific Chicago & Ohio River, Chicago, Burlington & Northern. Chicago, Burlington & Northern. Galesburg & Rio 	Sept. 4, 1890 O. &F. Nov. 11, 1890 F. Nov. 11, 1890 O. &F. Oct. 23, 1890 O. &F. Nov. 3, 1890 F. Nov. 3, 1890 F.	C. & L. W. Ry. Co. Northern Pacific R. R. Co. C. & O. R. R. R. Co. C., B. & N. R. R. Co. C., B. & N. R. R. Co. C., B. & Q. R. R. Co.
 St. Louis, Kock Island & Chicago. St. Louis, Rock Island & Chicago. Chicago, Peoria & St. Louis Jacksonville Southeastern Lichfield, Carrollton & Western. Louisville & St. Louis 	Nov. 3, 1890 F. Oct. 31, 1890 O.&F. Dec. 11, 1890 O.&F. Dec. 11, 1890 F. Dec. 11, 1890 F. Dec. 11, 1890 F.	C., M. & St. P. Ry. Co.
 Foria & Bureau Valley Peoria & Bureau Valley Chicago, St. Louis & Pittsburgh Englewood Connecting. Chicago, St. Paul & Kansas City Cleveland, Cin., Chicago & St. L Cairo, Vincennes & Chicago Chicago 	Oct. 15,1890 F. Oct. 2,1890 O.&F. Nov. 1,1890 F. Sept. 8,1890 O.&F. Oct. 24,1890 O.&F.	C., St. L. & P. R. R. Co C., St. P. & K. C. Ry. Co C., C., C. & St. L. Ry. Co
1 Atchison, Topeka & Santa Fe * 2 Chieago, Santa Fe & California 3 Atch., Top. & Santa Fe in Chi 4 Miss. R. R. R. & Toll Bridge Co 5 Baltimore & Ohio & Chieago 6 Baltimore & Chio & Chieago 7 Died & Chieago	Oct. 21, 1890 O. & F. Oct. 24, 1890 O. & F. Nov. 5, 1890 F. Sept. 29, 1890 O. & F. Oct. 6, 1890 O. & F. Oct. 5, 1890 F.	
 Gardner, Coal City & Northern Gardner, Coal City & Northern Waukegan & Southwestern Fulton County Narrow Gauge Fulton County Extension Grand Tower & Carbondale Grand Tower & Cape Girardeau. Girand Tower and Cape Girardeau. 	Nov. 17, 1890 F. Nov. 17, 1890 F. Dec. 10, 1890 O.&F. Dec. 10, 1890 O.&F. Nov. 8, 1890 O.&F. Nov. 8, 1890 O.&F.	C., B. & Q. R. R. Co E. St. L. & Car. Ry. Co E. St. L. Con. Ry. Co Under construction E., J. & E. Ry. Co F. C. N. G. Ry. Co G. T. & C. R. R. Co G. T. & C. R. R. Co I. C. R. R. Co
59 Dunleith & Dubuque Bridge Co 60 Kankakee & Southwestern,	Oct. 22, 1890 F. Oct. 22, 1890 F.	1.6
 61 Mound City. 62 Rantoul. 63 South Chicago. 64 St. Charles Air Line. 65 Indiana & Illinois Southern. 66 Indianapolis, Decatur & Western. 67 Indiana, Illinois & Lowa. 68 Iowa Central. 69 Keithsburg Bridge Co. 70 Peoria Terminal. 71 Lake Erie & Western. 	Oct. 22,1890 F. Oct. 22,1890 F. Dec. 10,1890 O.&F. Nov. 17,1890 O.&F. Nov. 8,1890 O.&F. Sept. 10,1890 O.&F.	I. & I. S. R. R. Co I. D. & W. Ry. Co I. I. & I. R. R. Co. Ia. Ceutral Ry. Co
70 Peoria Terminal. 71 Lake Erie & Western.	Sept. 26, 1890 O.&F.	L. E. & W. R. R. Co

Mileage fe	or vear	ending June	30, 1890.
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3	-4	5	6	7	8	9	
LENGTH OF ATED-IN	LINE OPER- Miles.	Length of I —In M	Line Owned files.	Second, third and fourth	Yard tracks, sidings	New road built	
Whole Line.	In Illinois.	Whole Line.	In Illinois.	Inited and fourth tracks in Illinois. 5.90 41.03 41.03 32.92 39.61 39.61 222.56 222.56 222.56 11.73 168.10 11.73 168.10 11.73 168.10 11.75 168.10 11.75 111.75 111.75 111.75 111.75	and spurs in Illinois.	during year in Illinois.	
515.27	294.79	400.07	0*0.90		70.00		1
		490.97	278.50		35.88		3
271.00	14.31	.61	.51				$\frac{4}{5}$
		262.60	5.91	5,90	21.55		$\frac{6}{7}$
8.00	8.00	8.00	8.00	41.09	.13	8,00	8
848.68	586.06	548.80 37.20	548.80 37.20	41.03			10
969 10	19.90	1.30	.68				11
32.00	27.00	32.00	27.00		4.00	19.71	13
435.75	202.55	48.58	48.58	39.61	57.99		14
335.97	30.65	48.58 326-50	5.48 21.88		16.40		16
<i>ا</i> ه. 999		3.90	3,90	3.90	17.25		18
104.00	104.00	104.00	104.00		20.00		$\frac{19}{20}$
4,254.92	586.28 18.07	4,258.38	594.28 18.07	158.41	246.33 30.79	8.00	21
86.00	86.00	86.00	86.00	14.70	5.24		23
$371.11 \\ 5 138.82$	110.18 1.230.71	$ 349.17 \\ 4.663.33 $	93.57 847.05	222.56	17.35 312.02		24 25
		12.45	12.45		.65		26
		283.82	283.82		58.28		28
5,685.92	339.15 315-20	5,656.83 118 10	318.08 146.10	28.03	163, 64 10, 55	.30	29 30
		112.30	112.30		6.30		31
•••••		51,60 16,40	51.60 16.40		1.56		32
3,354.98	236.40	1,185.80	189.70	168.10	125.20 10.70	•••••	34
636.05	28.00	580.52	28.00	11.73	38.40		36
2.35 862-68	2.35 172.16	2.35 815.67	2.35 146 73		.73	2.35	37
1,296.90	477.70	761.30	001 00				39
		207.00	201.00	$\{ \}$ 2.75	117.63	: {	41
42.08	42.08	42.08	42.08	3	5.39	••••••	42
	101.02	3.50	3.50		.50	3.50	44
12.01	12.01 9.20	$12.01 \\ 1.80$	12.01		4.38		45
172.28	150.09	1.50	1.50			1.50	47
172,20	100.00	33.58	33.58		7.54		49
61.00	61.00	35.60 31.00	35.60 31.0		$5.40 \\ 2.40$	35.60	$50 \\ 51$
		30.00	30.00		.61		52
28.80	28.80	20.20 28.80	20.20 28.80		2.00	28,80	54
2,279.22	1,285.28	1,609.43 131.69	705.50	111.75	197.99 12.10	•••••	55
		222.14	130.88		29.14		57
		111.47.59	.17	{ 	17.76		58
		131.26	131.20		12,99		60
		74.43	66.21		4.51		62
		4.76	4.70	4.70	3.22		
90.00	56.00 75.76 68.95	90.00	56.00		2.00 7.93 8.13 11.90		65
$152.51 \\ 169.09$	68.95	152.51	68.95		7.93 8.13		67
488,39	93.25	503.02 2.57	88.65		11.90		68 69
585.8	121.02	4.00	4.00) 	17.56		70
585.84	121.02	582.07	118.60		17.56		171

			1	2
	Name of Company.	REPO	C OF FILING RT. (OPERAT- OR FINAN- CIAL.)	How Operated.
$\begin{array}{c} 767\\ 778\\ 799\\ 800\\ 811\\ 822\\ 833\\ 848\\ 856\\ 889\\ 990\\ 992\\ 993\\ 990\\ 992\\ 993\\ 990\\ 992\\ 993\\ 990\\ 992\\ 993\\ 990\\ 992\\ 993\\ 990\\ 992\\ 993\\ 990\\ 992\\ 993\\ 990\\ 900\\ 900\\ 900\\ 900\\ 900\\ 900$	Ohio & Mississippi Ohio, Indiana & Western Pawnee. Pennsylvania Co Calumet River.	Oct. Sept. Sept. Sept. Sept. Sept. Oct. Sept. Oct. Oct. Oct. Oct. Oct. Oct. Sept. Oct. Oct. Oct. Oct. Oct. Oct. Oct. Sept. Nov. Oct. Oct. Sept. Oct. Nov. Oct. Sept. Oct. Sept. Nov. Oct. Oct. Oct. Oct. Oct. Oct. Oct. Oct	$\begin{array}{c} 31, 1890 \ O.\ \&F, \\ 19, 1890 \ O.\ \&F, \\ 5, 1890 \ O.\ \&F, \\ 5, 1890 \ O.\ \&F, \\ 12, 1890 \ O.\ \&F, \\ 14, 1890 \ O.\ \&F, \\ 15, 1890 \ O.\ \&F, \\ 15, 1890 \ O.\ \&F, \\ 12, 1890 \ F, \\ 11, 1890 \ F, \\ 13, 1890 \ O.\ \&F, \\ 13, 1890 \ F, \\ 13, 1830 \ F, \\ 14, 1890 \ O.\ \&F, \\ 14, 1800 \ O.\ \&F, \\ 14, 1800 \ O.\ \&F, \\ 14, 1800 \ O.\ $	L. E. & St. L. Con, R. R. Co. I. N. A. & C. Ry. Co. M. C. R. R. Co. Used as switch N. Y., C. & St. L. R. R. Co. O. & M. Ry. Co. O. & M. Ry. Co. O. & M. Ry. Co. P. R. R. Co. Penn. Company. P. & P. U. Ry. Co. P. D. & E. Ry. Co. N. L. & P. Ry. Co. St. L., A. & T. H. R. R. Co. St. L., A. & T. H. R. R. Co. St. L., A. & T. H. R. R. Co. T. R. R. Ass'n of St. Louis. T. H. & P. R. R. Co. T. St. L. & K. C. R. R. Co. T. P. St. L. & K. C. R. R. Co. T. P. St. L. & K. C. R. R. Co. T. P. St. L. & K. C. R. R. Co. T. St. L. & K. C. R. K. Co. T. St. L. & K. C. K. C. K. C. K. St. Vide

Includes 8 miles Junction Railway, not yet in operation.
 Operated by C. & E. I., Wabash, C. & Atlantic, C. & G. T., L., N. A. & C., A., T. & S. Fe and Belt.
 Includes mileage of Champaign & Sidney R. R. -11.70 miles belonging to Purchasing Committee.
 From April 1, 1800, operated by Northern Pacific R. R. Co.
 Owned by Chicago, Wilmington & Vermilion Coal Co., and connects mines with C., B. & Q, R. R.
 Operated one month prior to June 30, 1890.
 Not yet in operation.
 Not yet in operation.

Continued.

3	4	5	6	7	8	9	
LENGTH OF ATED-IN	LINE OPER- MILES.	Length of 1 —In N	LINE OWNED AILES.	Second, third and fourth	Yard tracks, sidings and spurs in	New road built during	
Whole Line.	In Illinois.	Whole Line.	In Illinois.	tracks in Illinois.	Illiñois.	year in Illinois.	
1,445.36	14.02	$1,086.82 \\ 2.50$	$\begin{array}{c} 14.02\\ 2.50\end{array}$		55.23 .50		177
208.00	179.97	208.00	170.07				17
(9) 296.74	93.80	(9) 208.00 (9) 297.51	163.53		$40.07 \\ 17.62$	(8) 64.35	1
537.07 1,608.27	$19.86 \\ 49.07$	$510.46 \\ 270.07$		6.07		•••••	7
1,000.21		45.00	29.00	6.07	16.92	•••••	1
160.69	160.60	45.00 160.60	160,60		36.27	•••••	1 - W - W - W - W
523.02	18,86	502.56	•••••		15.00	•••••	8
	10.00	9.96	9.96	1.31	17.29	•••••	8
$628.48 \\ 350.45$	375.52 131.52	9,96 628,48	375.52	•••••	61,94		0000
$\begin{array}{c} 6.61 \\ 480.14 \end{array}$	6.61 26.57	4.11 4.43	4.11	1.31	, 50	4.11	00
		$\frac{4.43}{469.89}$					00000
		10,25	10.32 10.25	14,04	1.50	•••••	9
$18.01 \\ 256.63$	$18.01 \\ 213.25 \\ 2.02$	$18.01 \\ 233.28 \\ 134.51$	$18.01 \\ 192.92$	14.34 2.00	$33.80 \\ 25.28$	••••	9 9 9
$137.53 \\ 113.00$	$2.02 \\ 113.00$	$ \begin{array}{r} 134.51 \\ 113.00 \end{array} $	113.00	· · · · · · · · · · · · · · · · · · ·	11 98		9
96.00	96.00	81.00	81.00		18.16	••••••	9
239.04	239.04	$\begin{array}{r} 2.00\\ 207.40\end{array}$	198.40		13.30		0
	••••••••••••	$17.20 \\ 50.20$	$\begin{array}{c} 17.20 \\ 50.20 \end{array}$	•••••	$2.78 \\ 3.40$		9
• • • • • • • • • • • • • • • • • • • •		$56.40 \\ 53.50$	56.40	•••••	11.10		1
	•••••	29.74			3.89		
52.75	52.75 14.00	$\begin{array}{c} 17.50 \\ 51.25 \end{array}$	$17.50 \\ 51.25$		$.50 \\ 3.97$		1
$14.00 \\ 3.20$	$14.00 \\ 1.88$	14.00 3.20	$14.00 \\ 1.88$.79	1.00		1
158.30	158.30	158.30	158.30				1
$172.89 \\ 247.10$	165.94	144.74	144.74	•••••	13.07		1
$247.10 \\ 450.72$	$247.10 \\ 179.49$				$36.10 \\ 23.90$	· · · · · · · · · · · · · · · · · · ·	1
1,921.00	731.00	50.00 $1.443.40$	50.00 (3) 671.30		163.20		1
42.26 867.06	$42.26 \\ 60.26$	42.26 233.37	42.26		2.88		1
807,06	00.26	233.37 49.36	49.36		7.96	••••	1
			10,163,46	925.77	2,928,34	222.65	

TABLE II, A.—Capital Stock, Bonds and Equipment Trust Ending June

					0	
		. 1	2	3	. 4	
	NAME OF COMPANY.	CAPITAL	Зтоск.	Bonds.		
	5	Amount outstanding.	Amount per mile of road.	· Amount outstanding.	Amount per mile of road.	
$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ \end{array} $		\$15,000,000 00 5,000,000 00 1,000,000 00 1,503,450 00	2,463,054 18	\$17,583,000 00 6,773,000 00 650,000 00 7,744,000 00 10,360,950 00	⁸ 1,065,574 00 29,489 72	
9 10 11 12 13	Chicago & Alton Joliet & Chicago Mississippi River Bridge Co Chicago & Atlantic. Chicago & Calumet Terminal	17,594,500 00 1,500,000 00 300,000 00 In hands of 5,000,000 00 10,663,000 00	40,32258 23076923	626,000 00	18,877 21 481,538 46	
14 15 16 17 18 19	Chi-ago & Eastern Illinois Chicago & Western Indiana Evansville, Ferre Haute & Chi'go. Chicago & Grand Trunk Grand Trunk Junction	$\begin{array}{c} 10,663,000\\ 10,663,000\\ 5,000,000\\ 581,370\\ 00\\ 6,600,000\\ 00\\ 500,000\\ 00\\ 500\\ 00 \end{array}$	$\begin{array}{c} \text{Receiver.}\\ \text{Receiver.}\\ 156,250\ 00\\ 30,339\ 15\\ 102,923\ 01\\ 11,967\ 27\\ 20,214\ 40\\ 128,205\ 13 \end{array}$	$\begin{array}{c} 1,752,000\ 00\\ 14,273,000\ 00\\ 8,592,666\ 67\\ 1,250,000\ 00\\ 12,000,000\ 00\\ 3,291,200\ 00\\ \end{array}$	54,750 00 40,610 59 176,876 63 25,730 75 36,753 44 843,897 43	
20 21 22 23 24 25 26 27 28 29 30 31 32	Chicago & Iowa Chicago & Northwestern Chicago & Northwestern Chicago & Ohio River Chicago, Burlington & Northern Chicago, Burlington & Quincy Galesburg and Rio Illinois Valley & Northern St. Louis, Rock Island & Chicago. Chicago, Milwaukee & St. Paul Chicago, Peoria & St. Louis Jacksonville Southeas ern Litchfield, Carrollton & Western.	$\begin{array}{c} 1,428,000\ 00\\ 66,282,820\ 53\\ 36,000,000\ 00\\ +38,800\ 00\\ 9,289,500\ 00\\ 240,000\ 00\\ 2,500,000\ 00\\ 3,000,000\ 00\\ 3,000,000\ 00\\ 61,708,861\ 00\\ 2,500,000\ 00\\ 1,000,000\ 00\\ 598,800\ 00\\ 1,000,000\ 00\\ 598,800\ 00\\ 1,500,000\ 00\\ 0,500,000\ 00\\ 0,500,000\ 00\\ 0,500,000\ 00\\ 0,500,000\ 00\\ 0,500,000\ 00\\ 0,500,000\ 00\\ 0,500,000\ 00\\ 0,500,000\ 00\\ 0,500,000\ 00\\ 0,500,00\ 00\\ 0,500,00\ 00\\ 0,500,00\ 00\\ 0,500,00\ 00\\ 0,500,00\ 00\\ 0,500,00\ 00\\ 0,500\ 00\ 00\\ 0,500\ 00\ 00\\ 0,500\ 00\ 00\\ 0,500\ 00\$	$\begin{array}{c} 3,102\\ 26,604\\ 52\\ 16,381\\ 96\\ 19,656\\ 01\\ 25,536\\ 26\\ 10,570\\ 07\\ 10,008\\ 72\end{array}$	$\begin{array}{c} 2,150,000\ 00\\ 104,985,500\ 00\\ 19,549,000\ 00\\ 868,300\ 00\\ (2),800,500\ 00\\ (2),800,500\ 00\\ (2),800,500\ 00\\ 1,163,200\ 00\\ 2,500,000\ 00\\ 1,5500,000\ 00\\ 1,420,000\ 00\\ 422,000\ 00\\ 247,000\ 00\\ 247,000\ 00\\ 24,5600,000\ 00\\ 00\ 00\\ 00\ 00\ 00\\ 00\ 00\ 00\$	$\begin{array}{c} 20,673 & 00\\ 24,700 & 26\\ 1,081,848 & 37\\ 10,006 & 51\\ 36,659 & 79\\ 22,799 & 00\\ 19,967 & 23\\ 19,802 & 51\\ 8,808 & 39\\ 22,219 & 69\\ 17,739 & 20\\ 12,644 & 70\\ 8,178 & 29\\ \end{array}$	
33 34 35 36 37 38 38	Jacksonville Southeas ern Litchfield, Carrollton & Western. Louisville & St. Louis Chicago, Rock Island & Pacific Peoria & Bureau Valley Chicago, St. Louis & Pittsburg Englewood Connecting Chicago, St. Paul & Kansas City Cleveland Cine Chicago & St L.	$\begin{array}{c} 1,000,000\ 00\\ 46,156,000\ 00\\ 1,500,000\ 00\\ 26,748,044\ 87\\ 98,500\ 00\\ 14,892,900\ 00\\ 30,500,000\ 00\\ 10,000\ 00\\ 10,000\ 00\\ \end{array}$	46 076 01	19,585,300 00 30,108,750 00	33,737 51 36.912 90	
	 Chicago, St. Folds & Filtsburg Englewood Connecting Chicago, St. Paul & Kansas City Cleveland, Cinc., Chicago & St. L Kankakee & Seneca Peoria & Eastern DePue, Ladd & Eastern Electric City & Illinois (under con). Elgin, Joliet & Eastern Gardner, Coal City & Northern Waukegan & Southwestern Fulton County Extension Grand Tower & Carbondale Grand Tower & Cape Girardeau. Illinois Central Chicago, Madison & Northern South Chicago Indiana & Illinois Southern Indiana, Illinois & Iowa 	$\begin{array}{c} 30,300,000,000\\ 10,000,000,000\\ 30,000,000\\ 420,000,000\\ 20,000,000\\ 2,500,000\\ 4,000,000,00\\ 1,000,000,00\end{array}$		26,963,750 00 650 000 00 13,430,000 00 200,000 00	$\begin{array}{c} 24,869\ 71\\ 15,446\ 76\\ 39,334\ 56\\ \hline 16,652\ 78\\ \end{array}$	
$ \begin{array}{r} 48 \\ 49 \\ 50 \\ 51 \\ 52 \\ 53 \\ 53 \\ 53 \\ 53 \\ 53 \\ 53 \\ 53 \\ 53 \\ 53 \\ 53 \\ 54 \\ 53 \\ 54 \\ 53 \\ 54 \\ 54 \\ 55 \\ 53 \\ 55 \\ 53 \\ 55 \\ 53 \\ 55 \\ 53 \\ 55 \\ 53 \\ 55 \\ 55 \\ 55 \\ 55 \\ 55 \\ 55 \\ 55 \\ $	Elgin, Joliet & Eastern. Gardner, Coal City & Northern Waukegan & Southwestern. Fulton County Narrow Gauge Fulton County Extension Grand Tower & Carbondale.	$\begin{array}{c} 4,000,000\ 00\\ 1,000,000\ 00\\ 1,000,000\ 00\\ 375,515,77\\ 260,900\ 00\\ 50,000\ 00\end{array}$	$\begin{array}{c} 40,399&96\\ 31,328&32\\ 28,089&89\\ 12,113&41\\ 8,696&66\\ 1,908&39\end{array}$	$\begin{array}{c} 3,427,000\ 00\\ 850,000\ 00\\ 850,000\ 00\\ 171,000\ 00\\ 313,000\ 00 \end{array}$	$\begin{array}{c} 34,612&66\\ 26,629&07\\ 23,876&40\\ 5,516&12\\ 10,433&33\end{array}$	
54 55 57 63 65	Grand Tower & Cape Girardeau. Illinois Central. Chicago, Madison & Northern South Chicago. Indiana & Illinois Southern Indianaolis Decatur & Western	350,000 00 40,000,000 00 1,400,000 00 1,000,000 00	$12, 152 \ 77 \\ 24, 853 \ 52 \\ 15, 555 \ 00 \\ 6 \ 577 \ 37 \\$	$\begin{array}{c} 350,000&00\\ 34,084,000&00\\ 2,500,000&00\\ 200,000&00\\ 1,239,000&00\\ 4,218,950&00\end{array}$	$\begin{array}{c} 12,152 \\ 21,177 \\ 68 \\ 11,254 \\ 16 \\ 42,016 \\ 80 \\ 13,766 \\ 00 \\ 31,599 \\ 70 \\ 10 \\ 549 \\ 21 \\ 549 \\ 70 \\ 10 \\ 549 \\ 70 \\ 10 \\ 549 \\ 70 \\ 10 \\ 549 \\ 70 \\ 10 \\ 549 \\ 70 \\ 10 \\ 549 \\ 70 \\ 10 \\ 549 \\ 70 \\ 10 \\ 549 \\ 70 \\ 10 \\ 70 \\ 10 \\ 70 \\ 10 \\ 70 \\ 10 \\ 70 \\ 10 \\ 70 \\ 10 \\ 70 \\ 10 \\ 70 \\ 10 \\ 70 \\ 10 \\ 70 \\ 10 \\ 70 \\ 10 \\ 70 \\ 10 \\ 70 \\ 10 \\ 70 \\ 10 \\ 1$	
67 68 71 72 73	Indiana polis, Jecatur & Western Indiana, Illinois & Iowa Iowa Central Lake Erie & Western Liverpool Coal. Louisville & Nashville (1) Southeast & St. Louis Louisville, Evansville & St. L., Con. Louisville, New Albany & Chicago. Michigan Central	$\begin{array}{c} 1,000,000\ 00\\ 3,597,800\ 00\\ 13,479,503\ 44\\ 23,680,000\ 00\\ 50,000,000\ 00\\ 25,000\ 00\end{array}$	$\begin{array}{c} 0,577&57\\ 30,440&81\\ 26,796&88\\ 40,682&00\\ 58,197&05\\ 10,000&00\\ \end{array}$	4,218,550 00 1,246,000 00 5,916,956 21 5,920,000 00 46,266,000 00	$\begin{array}{c} 31,355,76\\ 10,542,34\\ 11,762,74\\ 10,171,00\\ 45,393,52\\ \end{array}$	
75 76 77 78	Southeast & St. Louis Louisville, Evansville & St. L., Con. Louisville, New Albany & Chicago. Michigan Central	$\begin{array}{c} 1,000,000 & 00 \\ 5,086,009 & 00 \\ 5,900,000 & 00 \\ 18,738,204 & 00 \end{array}$	$\begin{array}{r} 4,807 & 69 \\ 14.154 & 54 \\ 11,558 & 20 \\ 69,382 & 77 \end{array}$	6,500,000 00 7,890,375 00 10,000,000 00 10,000,000 00	$\begin{array}{c} 31,249 \ 98 \\ 21,959 \ 19 \\ 19,590 \ 17 \\ 37,027 \ 43 \end{array}$	

Obligations for Mileage Owned-Whole Line-for year 30, 1890.

5	6	7	8	9	10	11	
EQUIPMENT OBLIGAT		SUMMA	SUMMARY.		No. e	Amount	
Amount outstanding.	Amount per mile of road.	Total Capital Stock, Bonds and Equipment Trust Obligations.	Total amount per mile of road.	No. of stock- holders in Illi- nois	elsewhere	Amount of stock held in Illinois.	
		\$32,583,000 00 11,773,000 00 1,650,000 00	$rac{\$66,364}{5,799,507} rac{36}{38} 2,704,918$ 00	8 8 3	7 7 3	\$800 800 999,700	$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \end{array} $
· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • •	$\begin{array}{c} 9,247,450&00\\ 27,955,450&00\\ 1,500,000&00\\ 926,000&00\end{array}$			$\begin{array}{r} & 6\\ 1,695\\ 141\end{array}$	$\begin{array}{r} 1,250\\ 3,029,000\\ 190,400\\ 300,000 \end{array}$	
	· · · · · · · · · · · · · · · · · · ·	6,752,000000 24,936,00000 13,522,66667 1,831,37000 18,600,00000 2,701,900000	911 000 00		415 5 234	5,000,000783,1002,000,100423,0002,0004,000	$12 \\ 13 \\ 14 \\ 15$
		5,751,200 00	Less than a mile in length	4		400	16 17 18 19
		3,578,000 00 171,268,320 53 49,549,000 00 1,307,100 00 22,090,000 00	$\begin{array}{r} 34,403\ 70\\ 40,294\ 82\\ 2,742,058\ 66\\ 15,198\ 83\\ 63,264\ 31\end{array}$	7 113 5 7 13	1 3,344 4 177 177	$\begin{array}{c} 700\\ 1,965,600\\ 1,400\\ 700\\ 3,299,300 \end{array}$	$ \begin{array}{r} 19 \\ 20 \\ 21 \\ 22 \\ 23 \\ 24 \\ 25 \\ 26 \\ 27 \\ 28 \\ 29 \\ 30 \\ 31 \\ \end{array} $
		$\begin{array}{c} 43, 34, 600 \\ 1, 307, 100 \\ 00 \\ 22, 090, 000 \\ 00 \\ 182, 713, 793 \\ 70 \\ 483, 800 \\ 00 \\ 2, 663, 200 \\ 00 \\ 5, 500, 000 \\ 00 \\ 187, 401, 861 \\ 00 \end{array}$	$\begin{array}{c} 39,180 & 96\\ 39,623 & 24\\ 45,338 & 77\\ 19,378 & 46\\ 33,128 & 42\end{array}$		$\begin{array}{c} & & 2 \\ & 1 \\ & & 2 \\ 3,011 \end{array}$	$400 \\ 400 \\ 400 \\ 400 \\ 858, 400$	25 26 27 28
		$\begin{array}{c} 4,595,000 & 00 \\ 2,420,000 & 00 \\ 1,020,800 & 00 \\ 1,247,000 & 00 \end{array}$	38,90770 21,54941 19,78294 76,03657	5		2,500,000	32
\$553,200 00	\$952-94	$\begin{array}{c} 67,656,000\ 00\\ 1,500,000\ 00\\ 46,886,544\ 87\\ 98,500\ 00\\ 65,91,650\ 00\\ \end{array}$	57,055 15 32,120 00 80,766 46 41,914 89 55,171 40	1	3,705 159 730 2 350	$\begin{array}{r} 1,926,700\\ 119,900\\ 10,500\\ 400\\ 19,500\end{array}$	$= \frac{36}{37}$
		$\begin{array}{c} 45,091,650,000\\ 57,468,750,000\\ 660,000,000\\ 23,430,000,000\\ 30,000,000\\ 620,000,000\\ -20,000,00\\ -20,00$	$\begin{array}{c} 53,001 \ 05\\ 15,684 \ 40\\ 68,623 \ 14\\ 8,571 \ 42\\ 51,623 \ 63\\ \end{array}$	1,153 1 5 3 8	15 1 5 2 6 3 5	135,600	$39 \\ 42 \\ 43 \\ 44 \\ 45 $
		$\begin{array}{c} 20,000\ 00\\ 2,500\ 00\\ 7,427,000\ 00\\ 1,850,000\ 00\\ 1,850,000\ 00\\ 546,515\ 77\\ 570,000\ 00\end{array}$	$\begin{array}{c} 11,111 \ 10 \\ \hline 75,012 \ 62 \\ 57,957 \ 39 \\ 51,966 \ 29 \\ 17,629 \ 53 \\ 19,129 \ 99 \\ 1,209 \ 90 \\ 90 \ 90 \ 90 \end{array}$		35 5 8 1	$19,700 \\ 5,000 \\ 1,500 \\ 2,500 \\ 375,515 \\ 360 \\ 375,515 \\ 375,5$	$ \begin{array}{r} 40 \\ 47 \\ 48 \\ 49 \\ 50 \end{array} $
		$\begin{array}{c} 546,515 \ 77\\ 573,900 \ 00\\ 50,000 \ 00\\ 700,000 \ 00\\ 74,084,000 \ 00\\ 2,500,000 \ 00\\ 900,000 \ 00\\ \end{array}$		4	4 5 3,744	375,515 260,900 3,000 51,500 1,109,000	53 54 55
39,545 00 52,419 40		2,678,545 00	29,700 38	4 2	11 98 7	318,000	$57 \\ 63 \\ 65 \\ 66$
52,419 40 108,561 43	215 82	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	103.590 57	5 5 21	1,013 577 3,263	80,600 51,000	$\frac{68}{71}$
		$\begin{array}{c} 7,500,000 & 00 \\ 12,976,384 & 00 \\ 15,900,000 & 00 \\ 28,738,204 & 00 \end{array}$	36,113 73		$ \begin{array}{c} 1 \\ 107 \\ 206 \\ 1,338 \end{array} $	160,000	75 76 77 78

	1	2	3	4	
NAME OF COMPANY.	CAPITAL	STOCK.	Bonds.		
	Amount outstanding.	Amount per mile of road.	Amount outstanding.	Amount per mile of road.	
 Joliet & Northern Indiana Mobile & Ohio (4) St. Louis & Cairo Si New York, Chicago & St. Lou Chicago & State Line Ohio & Mississippi Pawnee Pennsylvania Co. (4) Qalumet River 	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 40,473&22\\ 59,694&36\\ 15,060&24\\ 38,334&86\\ 7,201&94\\ 14,785&50\end{array}$	4,000,000 00 19,784,000 00 15,842,000 00 65,000 6 0	\$17,777 77 24,906 60 39,366 44 25,206 85 	
 90 Pittsburgh, Ft. Wayne & Ch 91 South Chicago & Southern 92 Peoria & Pekin Union 93 Peoria, Decatur & Evansville. 94 Quincy, Omaha & Kansas City 95 Rock Island & Peoria 96 St. Louis, Alton & Springfield 98 St. Louis, Alton & Terre Haut 99 Belleville & Carondelet 	licago 32,090,785 71 123,000 00 1,000,600 00 1,000,600 00 00 1,623,210 00 00 1,500,000 00 00 1,500,000 00 00 1,500,000 00 00 4,765,400 00 00	$\begin{array}{c} 55.524 \\ 35,922 \\ 50 \\ 12,067 \\ 80 \\ 13,274 \\ 33 \\ 18,072 \\ 28 \\ 23,035 \\ 75 \end{array}$	$\begin{array}{c} 12, 410, 000 \ 00\\ 123, 000 \ 00\\ 2, 994, 000 \ 00\\ 4, 845, 000 \ 00\\ 1, 739, 240 \ 00\\ 600, 000 \ 00\\ 818, 692 \ 94\\ 8, 057, 000 \ 00\\ 485, 000 \ 00\\ \end{array}$	$\begin{array}{c} 20,769 & 03 \\ 12,930 & 19 \\ 5,309 & 73 \\ 9,863 & 77 \\ 38,922 & 71 \end{array}$	
 Belleville & Eldorado Belleville & Southern Illinoi Chicago, St. Louis & Paduct St. Louis Southern Carbondale & Shawneetow St. Louis & Chicago St. Louis & Peoria Terminal Railroid Assn. of St. Berre Haute & Indianapolis (Construction) 	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 19,920 \ 31\\ 30,230 \ 49\\ 18,691 \ 59\\ 16,812 \ 37\\ 20,377 \ 14\\ 52,830 \ 18\\ 20,000 \ 00 \end{array}$	$\begin{array}{c} 550,000&00\\ 1,022,000&00\\ 2,000,000&00\\ 1,075,000&00\\ 250,000&00\\ 1,400,000&00\\ 182,000&00\\ 10,000,000&00\end{array}$	$\begin{array}{c} 9,960 \ 15\\ 18,120 \ 56\\ 37,383 \ 18\\ 36,146 \ 60\\ 14,285 \ 71\\ 26,415 \ 10\\ 13,000 \ 00 \end{array}$	
 109 St. Louis, Vandalia & Terrel 110 Terre Haute & Peoria. 111 Toledo, Peoria & Western 112 Toledo, St. Louis & Kansas Ci 114 Wabash. 115 Wabash, Chester & Western 116 Wisconsin Central Co 117 Chicago & Wisconsin 	$\begin{array}{ccccc} \text{Haute} & 3,924,058 \ 10 \\ \dots & 5,400,000 \ 00 \\ \dots & 4,500,000 \ 00 \\ \dots & 52,000,000 \ 00 \\ \dots & 52,000 \ 000 \\ \dots & 3,618,237 \ 33 \end{array}$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{c} 4,499,000\ 00\\ 1,800,000\ 00\\ 4,800,000\ 00\\ 9,800,000\ 00\\ 78,000,000\ 00\\ 300,000\ 00\\ 11,209,642\ 21\\ 1,500,000\ 00 \end{array}$	$\begin{array}{c} 28,413 & 54 \\ 12,500 & 00 \\ 20,860 & 50 \\ 20,000 & 00 \\ 50,492 & 00 \\ 7,098 & 91 \\ 48,033 & 77 \\ 30,388 & 97 \end{array}$	
Total	\$847, 488, 296 90	\$25,573 37	\$920, 683, 061 73	\$27,540 44	

(1). Includes stock and bonds of the St. Louis Bridge Co, and stock of the Tunnel Railroad of St. Louis.

(2). Includes \$6,330,780.84 contingent liabilities of leased lines.

(3). These figures are on the basis of one mile.

(4). Inserted to show proper relation of road following.

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•	C	n	ti	n	11	D.	\mathbf{c}	
U	U		U.		.u	C	u	٠

5	6	7	8	9	10	11	
	EQUIPMENT TRUST OBLIGATIONS.		Summary.			Amount	
Amount outstanding.	Amount per mile of road.	Total Capital Stock, Bonds and Equipment Trust Obligations.	Total amount per mile of road.	No. of stock- holders in Illi- nois	No.elsewhere	of stock held in Illinois.	
		\$1,100,000 00	\$24,444 43		•••••		79 80
		$\begin{array}{c} 10,500,000 \ 00 \\ 49,784,000 \ 00 \\ 1,500,000 \ 00 \end{array}$	$\begin{array}{r} 65,379&82\\99,060&80\\15,060&24 \end{array}$	$\begin{array}{c} 6\\ 2\\ 5\end{array}$	$^{6}_{1,276}$	\$600 6,000 500	81 83 84
\$504,000 00	\$801 93	40,438,692 15 29,600 00	$64,343 64 \\ 7,201 94$	6 56	773	148,000 29,600	85 87 88
		$\begin{array}{r} 130,500 \ 00 \\ 44,500,785 \ 71 \\ 246,000 \ 00 \end{array}$	$\begin{array}{c} 29,458 & 00 \\ 94,682 & 52 \\ 24,000 & 00 \end{array}$	3 22 5	$\begin{array}{c} 3\\2,444\\3\end{array}$	300 212,200 500	89 90 91
57,000 00	244-34	$\begin{array}{c} 3,994,000 & 00 \\ 13,282,000 & 00 \\ 3,362,480 & 00 \end{array}$	$\begin{array}{c} 221,765 & 67 \\ 56,935 & 87 \\ 24,997 & 99 \end{array}$	29	70	409,720	92 93 94
63,321 94	762 92	2,100,000 00 2,382,014 88 12,825,400 00	$\begin{array}{c} 18,584 & 06 \\ 28,698 & 97 \\ 61,958 & 46 \end{array}$	15 3 11	110 2 189	$979,500 \\ 1,000,000 \\ 2,600$	95 96 98
	 	$\begin{array}{c} 985,000 \ 00 \\ 1,550,000 \ 00 \\ 2,727,000 \ 00 \end{array}$	57,267 43 29,880 46 48,351 05		$\frac{24}{52}$	186,700	99 100 101
		$\begin{array}{c} 3,000,000&00\\ 1,575,000&00\\ 606,600&00\end{array}$	56,074 77 52,958 97 34,662 85		$ \begin{array}{c} 3 \\ 24 \\ 26 \end{array} $	899,800 8,300 50,800	$\begin{array}{c}103\\104\end{array}$
71,457-64	5,104 11	$\begin{array}{r} 4,200,000 & 00 \\ 533,457 & 64 \\ 20,681,200 & 00 \end{array}$	79,245 28 38,104 11 6,462,875 10	3		1,500	105 106 107
		8,423,058 10 7,200,000 00	53,196 02 50,000 00	185 4	87 64	$\begin{array}{r} 342,150\\ 400\end{array}$	110
		$\begin{array}{r}9,300,000&00\\26,855,000&00\\130,000,000&00\end{array}$	$\begin{array}{r} 40,417 \ 21 \\ 57,900 \ 00 \\ 84,153 \ 31 \end{array}$	12 3	262 63	560,000 300 Not known.	$\begin{array}{c} 112\\114 \end{array}$
		550,000 00 14,827,879 54 3,000,000 00	$\begin{array}{c} 13.014 & 67 \\ 63,538 & 07 \\ 60,777,94 \end{array}$	5	3	233,100 300	116
\$1,449,505 41	\$644 08	\$1,769,620,864 04	\$53,757 89	1,399	30, 398	\$32,480,885	

TABLE II, B.—Capital Stock, Funded Debt and Current Liabilities for Mileage Operated, for year ending June 30, 1890.

œ	λΥ.	Total amount per mile of road.	
4	SUMMARY.	Total amount Capital Stock, Funded Debt and Balance Current Liabilities.	351 406, 017 77 51 19, 080, 477 51 55 56 19, 080, 477 51 55 56 19, 080, 477 51 55 56 10, 080, 477 51 56 56 57 58 10, 080, 177 51 56 57 58 56 57 58 56 57 56 57 58 56 57 58 56 57 58 56 57 58 56 57
9	CE, BILITIES.	Amount per mile of road.	\$10,938 84 357,444,88 357,444,88 15,218,00 651,331 651,333 1,517,5353 1,517,
10	BALANCE, CURRENT LIABILITIES.	Amount.	S5, 400, 017, 75 707, 883, 027, 15 707, 883, 027, 15 707, 883, 027 717, 683, 68 717, 708, 88 717, 708, 68 8, 910, 30 8, 910, 30 7, 77 8, 910, 30 8, 910, 30 7, 77 8, 910, 30 7, 77 7, 78 8, 910, 30 7, 77 8, 910, 30 7, 77 7, 78 8, 910, 30 8, 77 7, 78 8, 910, 30 7, 77 7, 78 8, 910, 30 8, 77 7, 78 8, 910, 30 8, 77 7, 78 8, 910, 30 8, 77 7, 78 8, 910, 30 8, 77 7, 78 8, 910, 30 7, 77 7, 78 8, 910, 30 8, 77 7, 78 8, 910, 30 7, 77 7, 78 8, 910, 30 7, 77 7, 78 8, 910, 30 8, 77 7, 78 8, 910, 30 7, 77 7, 78 8, 910, 78 7, 78
Ţ	DEBT.	Amount per mile of road.	
•0	FUNDED DERT.	Amount.	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $
c1	TOCK.	Amount per mile of road.	222 222 222 222 222 222 222 222 222 22
-	CAPITAL STOCK.	Amount.	321,000,000,000,000 000,000,000 25,200,000,000,000 25,200,000,000 7,100,000,000,000 000,000,000 7,100,000,000,000 000,000 7,100,000,000 000,000 1,7,100,000 000,000 1,7,100,000 000 1,7,100,000 000 1,7,200,000 000 1,7,200,000 000 1,7,200,000 000 1,7,200,000 000 1,7,200,000 000 1,7,200,000 000 1,7,303,500 000 1,7,708,561 000 26,738,900 000 1,1,502,500 000 1,1,502,500 000 1,1,502,500 000 1,1,502,500 000 26,000,000 000 50,000,000 000 50,000,000 000 50,000,000 000 50,000,000 000 50,000,000 000
	NAME OF COMPANY.		Atchison, Topeda & Santa Fe (5). Baltmore & Oho (2). Plotego & Calumet Treminal. Plotego & Northern Pacillo. Plotego & Northern Pacillo. Plotego & Northern Pacillo. Schieszo & St. Paul & St. Jouis Schieszo St. Paul & Fatauk Scheast St. Louis & Carondelet Scheast St. Louis & Carondelet Scheast St. Louis & Carondelet

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99	68	12	2	14	26	- AL	202	80	88	85	8	é	8	ő	8	83	8	7 6	36	96	8 6	105	166	107	108	110	111	112	114	115	116	
31	95	5	22	6	35	40	8	<u>5</u> 2	21	95	76	0	27	00	3	6	3	22	90	26	62	28	ē,	84	8	30	50	61	55	6	95	18
280 847	80	E	60	22	018	879	157	379	135	<u>8</u>	50	00	082	000	23	35	26	33	180	559	8	245	905	760	196	600	ŝ	937	22	88 88	<u>4</u> 80	122
30.5	Ŧ	Ē	ġ	36.	46.0	33	55.	33	6	33	-	-	7										4									\$52,
			Ē					Ĩ								51								6,4								1
00												1	7										67									62
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66 Indianapolis, Decatur & Western 67 Indiana, Illinois & Iowa	9	1.0	1.0		1.0	~	10	00	s	so.	uoj	x	0	Ø	0	σ.	σ.	6	ರ್	6	¢.	10	10	10	10	H	Ξ	II	H	H	116 Wisconsin Central Co	

Includes stock and bonds of St. Louis Bridge Co. and stock of Tunnel Railroad of St. Louis.

Represents stock, bonds, etc., of B. & O. & C. R. R. Represents stock, bonds, etc., of S. E. & St. I. Ry. E 2 2 2 4

Includes \$6,330,780.84 contingent liabilities of leased lines.

Bepresents stocks, bonds, etc., of C., S. Fe & C. R. R., A., T. & S. Fe R. R. in Chicago, and Miss. River R. R. & Toll Bridge Co.

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NAME OF COMPANY.	Gross	Operating
	earnings from operation.	expenses.
	1	<u> </u>
1 Atchison, Topeka & Santa Fe 5 Baltimore & Ohio	\$4,564,391 92	$\$3,013,960\ 10\ 2,141,558\ 08$
 a) Baltimore & Ohio. b) Baltimore & Ohio. 8) Centralia & Chester. 9) Chicago & Alton. 12) Chicago & Atlantic	$\begin{array}{c} 2,588,523 \\ 643,719 \\ 58 \end{array}$	409,942 18
9 Chicago & Alton.	5,186 89 8,063,498 50	5,992 80 4,870,785 96
12 Chicago & Atlantic 13 Chicago & Calumet Termina	$ \begin{bmatrix} 8,063,498&50\\ 2,678,926&65\\ 5,040&69\\ 2,911,722&65\\ 9,056&15\\ 2,015&45\\ 2,015&15\\ 1,025\\ 2,015&15\\ 1,025\\ 1,0$	1,912,953 37 4,628 62
14 Chicago & Eastern Illinois. 17 Chicago & Grand Trunk.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 409, 942 \ 18\\ 5, 992 \ 80\\ 4, 870, 785 \ 96\\ 1, 912, 953 \ 37\\ 4, 628 \ 62\\ 1, 632, 442 \ 20\\ 2, 872, 120 \ 19\\ 254, 290 \ 47\\ 17, 055, 856 \ 33\\ \end{array}$
20 Chicago & Iowa	476,533 10	254,290 47
23 Chicago & Ohio River.	27,433,18094 70,31926	17,055,850,55 60,534,29
 20 Chicago & Iowa	$\begin{array}{c} 70,319 \\ 70,319 \\ 1,942,340 \\ 28,238,424 \\ 26,473,486 \\ 44 \\ 46 \\ 46 \\ 46 \\ 46 \\ 46 \\ 46 \\$	$\begin{array}{c} 254,250&47\\ 17,055,856&33\\ 60,534&29\\ 1,225,004&55\\ 17,306,244&80\\ 16,410,829&33\\ 16,410,829&33\end{array}$
29 Chicago, Milwaukee & St. Paul 30 Chicago, Peoria & St. Louis	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
34 Chicago, Rock Island & Pacific	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 12,004,405 \\ 4,769,374 \\ 50 \\ 1,899 \\ 3,178,885 \\ 34 \end{array}$
37 Englewood Counceting	3,124 78	1,899.93
39 Cleveland, Cincinnati, Chicago & St. Louis	4,225,664,81 11,131,259 76	
42 Kankakee & Seneca 43 Peoria & Eastern	63,881 95 719,142 01	62,565 97 497,802 18
45 East St. Louis & Carondelet	80,481 78 149,703 82 459,172 59	62,565,97 497,802,18 55,288,06 140,693,17 297,845,07 47,63,69 65,461,54
48 Elgin, Joliet & Eastern.	459,172 59	297,845 07
42 Kankakee & Seneca. 43 Peoria & Eastern. 45 East St. Louis & Carondelet. 46 East St. Louis Connecting 48 Elgin, Joliet & Eastern. 51 Fulton County Narrow Gauge. 53 Grand Tower & Carbondale. 54 Grand Tower & Carbondale. 55 Illinois Central. 65 Indiana & Illinois Southern. 66 Indiana, Illinois & Iowa. 67 Indiana, Illinois & Iowa. 68 Iowa Central.	47,059 $4383,788$ 30	
55 Illinois Central	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 13,575 \\ 8,772,998 \\ 61,171 \\ 24 \\ 321,669 \\ 16 \\ 956 \\ 956 \\ 16 \\ 956 \\ 16 \\ 956 \\ 16 \\ 956 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ $
65 Indiana & Illinois Southeru 66 Indianapolis, Decatur & Western	83,713 36 436,397 25	61,171 24 321,669 16
67 Indiana, Illinois & Iowa 68 Iowa Central	326,887 38 1 604 366 69	255, 549 81
71 Lake Erie & Western	1,604,366 69 2,500,097 86	1,453,903 17
 68 Iowa Central. 71 Lake Erie & Western	$\begin{array}{c} 20,462,638 87 \\ 1,175,540 40 \\ 1.145,063 97 \end{array}$	$\begin{array}{c} 1,173,903 17\\ 1,453,903 17\\ 13,357,872 29\\ 778,991 87\\ 707,608 13\\ 1,618 061 27\end{array}$
76 Louisville, Evansville & St. Louis, Consolidated 77 Louisville, New Albany & Chicago	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
78 Michigan Central 80 Mobile & Ohio	14,340,498 45 727.094 91	$10,068,789 74 \\ 538,400 69 \\ 740 59 \\$
83 New York, Chicago & St. Louis.	5,548,086 78	4,220,762 49
86 Ohio. Indiana & Western	$\begin{array}{c} 14,340,458,491\\727,094,91\\5,548,086,78\\4,214,746,62\\771,896,22\\9,974,80\end{array}$	622,727 87
87 Pawnee. 88 Pennsylvania Co. (Op. Pittsburgh, Ft. Wayne & Chicago	3,274 80 11,650,600 73	353,40009 4,220,76249 2,770,31148 622,72787 2,60439 7,283,45598 7,283,45598
92 Peoria & Pekin Union	$ 28,193 15 \\ 462,663 80 $	22,40257 276,49801
93 Peoria, Decatur & Evansville 94 Quincy, Omaha, & Kansas City	$\begin{array}{c} 11,08,000\\ 28,193\\ 15\\ 462,663\\ 80\\ 778,912\\ 00\\ 247,442\\ 29\\ 656,026\\ 00\\ 115\\ 71\\ 92\\ 10\\ 92\\ 10\\ 92\\ 10\\ 92\\ 10\\ 92\\ 10\\ 10\\ 92\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$	$\begin{array}{c} 1,203,403,257\\ 22,402,57\\ 276,498,01\\ 416,233,30\\ 170,645,36\\ 200,754,59\end{array}$
95 Rock Island & Peoria	656,026 00	
98 St. Louis, Alton & Bringheit.	$115,711 93 \\1,207,302 80 \\69,710 60$	$\begin{array}{c} 107,527 \\ 649.116 \\ 09 \\ 50 \\ 051 \\ 07 \end{array}$
106 St. Louis & Peoria.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{r} 50,954 \\ 97 \\ 12,550 \\ 20 \end{array} $
 87 Pawnee. 88 Pennsylvania Co. (Op. Pittsburgh, Ft. Wayne & Chicago 88 Pennsylvania Co. (Op. South Chicago & Southern). 99 Peoria & Pekin Union 93 Peoria, Decatur & Evansville . 94 Quinev, Omaha, & Kansas City. 95 Rock Island & Peoria. 96 St. Louis, Alton & Springfield. 98 St. Louis & Chicago. 106 St. Louis & Chicago. 107 Terminal Railroad Association of St. Louis. 108 Terre Haute & Indianapolis. 110 Terre Haute & Peoria. 	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{r} 50,954 & 97\\ 12,550 & 20\\ 685,236 & 14\\ 1,174,240 & 98\end{array}$
110 Terre Haute & Peoria 111 Toledo, Peoria & Western	340,277 73	246,725 17 653,591 91
112 Toledo, St. Louis & Kansas City.	904,980 50 1,460,049 88	953,697 79
 10 Terre Haute & Peoria. 110 Terre Haute & Peoria. 111 Toledo, Peoria & Western. 112 Toledo, St. Louis & Kansas City. 114 Wabash. 115 Wabash, Chester & Western. 116 Wisconsin Central Lines. 	$\begin{array}{c} 13,352,872 \ 40 \\ 61,327 \ 26 \\ 4,780,344 \ 67 \end{array}$	46.677 60
		2,770,157 18
Totals	\$262,091,753 14	\$170,399,077 53

(4) Deficit from operation.

for year ending June 30, 1890.

3	4	5	6	7	8			
	INCOME FROM OTHER SOURCES.							
Income from operation.	Interest on bonds owned.	Dividends on stocks owned.	Miscellaneous income less expenses.	Total income fiom other sources.	Total income.			
			\$3,285 83					
233,777 40 (1) 805 91 3,192,712 54 765 973 2	\$233,290 00	\$32,032 00 30,000,00	7,949 28	273,271 28 31 349 83	(1) 805 91 3, 465, 983 82			
1,279,280 45 1,084,195 24	742 67	26,061 85	5,187 57 100,175 51	31,992 09 100,175 51	$\begin{array}{r} 412 & 07 \\ 1,311,272 & 54 \\ 1,184,370 & 75 \end{array}$	13 14 17		
$\begin{array}{r} 222,242 \\ 10,377,324 \\ 9,784 \\ 97 \end{array}$	458-34	285,243 00	7,949 28 1,349 83 5,187 57 100,175 51 124,178 36 291,443 43 116,677 64	409,879 70	$\begin{array}{r} 222,242 \\ 10,787,204 \\ 9,784 \\ 97\end{array}$	20 21 23		
717,33594 10,932,18012 10,062,65711 189,59561	752, 435–50 32, 400–97	58,151 00	$\begin{array}{c} 124,178 \ 36\\ 291,443 \ 43\\ 116,677 \ 64\\ 65,853 \ 79\\ 1,36,606 \ 79\\ 12,013 \ 24\\ \hline \\ 390 \ 00\\ \hline \\ 75 \ 00\\ 3,382 \ 75 \end{array}$	1,043,878 93 207,229 61 65,853 79	$\begin{array}{c} & 797, 323 \\ & 412 \\ & 1122 \\ 54 \\ & 1,370 \\ & 75 \\ & 222 \\ & 242 \\ & 53 \\ & 9,781 \\ & 9,$	20 21 24 24 25 25 30		
5,911,511 18 1,714,352 19 1,224 85	4,890 00	52,110 00	$1, 436, 606 79 \\12, 013 24$	1,493,606 79 12,013 24	$7,405,117 97 \\1,726,365 43 \\1,224 85$	34		
1,046,779 47 3,999,775 19 1,315 98 991 339 83	36,820 00	19,899 52	390 00	57,109 52	1,046,779 47 4,056,884 71 1,315 98 991 339 83	38 39 41 42		
$\begin{array}{r} 221,003\\ 25,193\\ 9,010\\ 65\\ 161,327\\ 52\end{array}$			$\begin{array}{rrrr} 75 & 00 \\ 3,382 & 75 \\ 85,766 & 67 \end{array}$	75 00 3,382 75 85,766 67	241, 535, 568, 72, 12, 393, 40, 247, 094, 19, (1), 704, 26, 17, 323, 76, 17, 323, 76, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	40		
17,323-76 443-30				780,502 26	440 00			
5,592,233 20 22,542 12 114,728 09 71 537 57	529, 289-47	181,380-32	69,832 47	780,502 26	0,372,735 46 22,542 12 114,728 09 71 537 57	55 65 66 67		
$\begin{array}{c} 114, 126, 057\\71, 537, 57\\428, 018, 34\\1, 046, 194, 69\\7, 104, 766, 58\\7, 104, 766, 59\\$	45,290 00		471 50 286,581 50		$\begin{array}{r} 428,489 \\ 1,046,194 \\ 7,653,831 \\ 83\end{array}$	68 71 72		
396,548 53 437,455 84 935,549 23 4 971 708 71		30,000 00 12 015 50	286,581 50 24,348 43 12,335 20 8,903 20 711 90 145,179 81 29,525 72 4,000 00	$\begin{array}{c} 24,348 \ 43\\ 30,000 \ 00\\ 54,810 \ 70\\ \hline 8,993 \ 29\\ 711 \ 90\\ \end{array}$	$\begin{array}{c} 6,372,73566\\ 22,51212\\ 114,72809\\ 71,53757\\ 428,48984\\ 1,04619469\\ 7,653,83183\\ 396,54853\\ 461,80427\\ 965,51923\\ 4,326,51941\\ 188,60422\\ 1,336,31758\\ 1,445,14707\\ 149,16835\\ 67041\\ \end{array}$	72 74 70 71 71		
$\begin{array}{r} 188,694 \\ 1,327,324 \\ 1,444,435 \\ 17 \end{array}$		12,010 00	8,993 29 711 90	8,993 29 711 90	$\begin{array}{r} 188,694 \\ 1,336,317 \\ 1,445,147 \\ 07 \end{array}$	80 83 85		
$149,168 35 \\ 670 41 \\ 4,367,144 75 \\ 700 59 \\ $	· · · · · · · · · · · · · · · · · · ·		145,179 81	145,179 81	$\begin{array}{r} 149,168 \ 35 \\ 670 \ 41 \\ 4,512,324 \ 56 \\ 5200 \ 58 \end{array}$	86 87 88 88		
$ \begin{array}{r} 3, 190 50 \\ 186, 165 79 \\ 362, 678 70 \\ 76, 796 93 \end{array} $			29,525 72	29,525,72	$\begin{array}{c} 149, 168 \ 35\\ 670 \ 41\\ 4, 512, 324 \ 56\\ 5, 790 \ 58\\ 186, 165 \ 79\\ 362, 678 \ 70\\ 106, 322 \ 65\\ 359, 881 \ 18\\ 8, 184 \ 88\end{array}$	92 92 93 94		
346,241 18 8,184 88 558,186 71		640 00	4,000 00 444,301 57	4,640 [°] 00 444,301 [°] 57	350,881 18 8,184 88 1,002,488 28	- 98		
(1) 3,540 96 (1) 3,540 96 1,054,207 82 658,750 28			29,525 72 4,000 00 444,301 57 185,912 50	185,912 50	$\begin{array}{c} 55^{3}, 83^{1} 18\\ 8, 184 88\\ 1,002,488 28\\ 11,755 63\\ (1) 3,540 96\\ 1,240,120 32\\ 658,750 28 \end{array}$	105 106 107 108		
251,388 59 506,352 09			33,850 00 221,434 51	33,850 00	658,750 28 93,552 56 285,238 59 506,352 09	$110 \\ 111 \\ 112$		
3,679,651 22 14,649 66 1,810,187 49	· · · · · · · · · · · · · · · · · · ·	51,090 00	221,434 51 23 59	272, 434 51 23 59	$\begin{array}{r} 33,332 \ 50\\ 285,238 \ 59\\ 506,352 \ 09\\ 3,952,085 \ 73\\ 14,649 \ 66\\ 1,810,211 \ 08\end{array}$	$ \begin{array}{r} 114 \\ 115 \\ 116 \\ 116 \end{array} $		
\$91,697,726 74	\$1,636,076 95	\$1,025,726 94	\$3,721,837 68	\$6,383,641 57	\$98,081,368 31			

	9	10
		DEDUCTIONS
NAME OF COMPANY.	Interest on funded debt, accrued.	Interest on interest bear- ing current liabilities <i>accrued</i> not otherwise provided for.
1 Atchison, Topeka & Santa Fe	\$901,480 00 464,640 00	\$328,016 28
8 Centralia & Chester		
9 Chicago & Alton	821,296 88	
13 Chicago & Calumet Terminal	7,300 00	
14 Chicago & Eastern Illinois	768,662 83	2,851 45 50,958 66
20 Chicago & Iowa	172,000 00	50,958 66
21 Chicago & Northwestern	5,803,688 38 14 270 00	
24 Chicago, Burlington & Northern	695,075 00	
 Chicago & Grand Trunk Chicago & Iowa Chicago & Northwestern Chicago & Northwestern Chicago, Burlington & Northern Chicago, Burlington & Northern Chicago, Burlington & Quiney. Chicago, Burlington & A. Louis. Chicago, Roek Island & Pacific Chicago, Roek Island & Pacific Chicago, Roek Island & Pacific Chicago, Roek Island & Starsheim Chicago, Peoria & St. Louis. Chicago, Paul & Kansas City. Cleveland, Cincinnati, Chicago & St. Louis. Kankakee & Seneca Peoria & Eastern. 	7,214,154 84	280 00
30 Chicago, Peoria & St. Louis.	75,000 00	280 00
36 Chieago, St. Louis & Pitisburgh	1,095,782 79	
37 Englewood Connecting	54,589 79	
39 Cleveland, Cincinnati, Chicago & St. Louis	1,439,081 02	
42 Kankakee & Seneca 13 Peoria & Fastern	39,000 00 206,100 00	
 42 Kankakee & Seneca. 43 Peoria & Eastern. 44 East St. Louis & Carondelet. 46 East St. Louis & Carondelet. 48 Elgin, Joliet & Eastern	14,000 00	14,656 96
48 Elgin, Joliet & Eastern	171,350 00	14,000 50
51 Fulton County Narrow Gauge	33,880 00	
54 Grand Tower & Cape Girardeau	21,000 00	
55 Illinois Central	1,464,925 00	63,631 59 1,846 73 795 83
65 Indiana & Illinois Southern 66 Indianapolis, Decatur & Western	132,880 00	795 83
67 Indiana, Illinois & Iowa 68 Iowa Central	296,796,76	4,784 97
71 Lake Erie & Western	296.000 00	4,784 97
74 Louisville & Nashville	300,000 00	
76 Louisville, Evansville & St. Louis, (Consolidated)	329,618 $38579 767 93$	46,722-29
 67 Indiana, Illinois & Iowa 68 Iowa Central	1,073,800 00	
80 Mobile & Ohio	160,000 00 786,660 00	
85 Ohio & Mississippi	1,054,245 31 282,099 28	091 19
86 Ohio, Indiana & Western	252.099-28	
88 Pennsylvania Co., (Op. Pittsburgh, Ft. Wayne & Chicago).		
92 Peoria & Pekin Union	157,155-00	
93 Peoria, Decatur & Evansville 94 Ouiney, Omaha & Kansas City	275.157 50 61.275 28	11,034 02
95 Rock Island and Peoria.	42,000 00	
98 St. Louis, Alton & Springheid	469,000 00	
105 St. Louis & Chicago.	84,000 00 6 066 67	
107 Terminal Railroad Association of St. Louis.	168,750 00	
108 Terre Haute & Indianapolis 110 Terre Haute & Peoria	90,000 00	
 86 Ohio & Mississippi. 86 Ohio & Mississippi. 87 Pawnee. 88 Pennsylvania Co., (Op. Pittsburgh, Ft. Wavne & Chicago). 88 Pennsylvania Co., (Op. South Chicago & Southern). 92 Peoria & Pekin Union. 93 Peoria, Decatur & Evansville. 94 Quiney, Omaha & Kansas City. 95 Rock Island and Peoria. 96 St. Louis, Alton & Springfield. 98 st. Louis & Chicago. 106 St. Louis & Chicago. 107 Terminul Railroad Association of St. Louis. 108 Terre Haute & Indianapolis. 110 Terre Haute & Peoria. 111 Toledo, Peoria & Western. 	180,240 00	12,128 97

for year ending June 30, 1890.—Continued.

	12	13	14	15	16	
11	12	19	14	10	10	
FROM INCOME						
			Total deduc-	Net income.	Net deficit.	
Rental of leased lines.	Taxes.	Other deductions.	tions from income.			
						•
\$700,934 22	\$180,413 19 78,672 00		\$1,782,827 41 871,328 28 128,005 00			$\frac{1}{5}$
100,005 00	28,000 00			\$105,772 40	805-91	1 5 7 8 9
670,316 57 171,821 85	243,198 67 77,823 86	\$92,387 60	1,827,19972 263,25107	1,638,784 10 534,072 04		$^{9}_{12}$ 13
$\frac{200,060}{164,560}\frac{74}{00}$			$\begin{array}{c} 1,827,199&72\\ 263,251&07\\ 7,360&00\\ 1,070,502&28\end{array}$	240,770 26	805 91 6,887 93 12,237 81 161,724 22	$ 13 \\ 14 $
164,560 00	123,421 54 16,556 87	4,325 77	$\begin{array}{r} 1,010,922 \\ 998,920 \\ 192,882 \\ 6,764,301 \\ 42 \end{array}$	$\begin{array}{c} 185,450 \\ 29,359 \\ 99 \end{array}$		$\frac{17}{20}$
	758,043 04 7,752 78	$\begin{array}{c} 4,325\\202,570\\202,570\\2,109\\18\\785,332\\50\end{array}$	6,764,301,42 22,022,78 879,060,16	4,022,902-89	12,237 81 161,724 22	$ \begin{array}{r} 14 \\ 17 \\ 20 \\ 21 \\ 23 \\ 24 \\ 25 \\ 29 \\ 30 \\ \end{array} $
$\frac{101,454}{216,346}\frac{76}{90}$	$\begin{array}{c} 80,421,22\\ 1,191,624,88\\ \end{array}$	2,109 18 785,332 50	879,060 16 7,725,924 45	4,250,134 60	101,724-22	24 25
$\begin{array}{r} 20,769&05\ 2,000,885&74 \end{array}$	550,046 55 16,737 61		7,725,924 45 8,044,201 39 112,786 66 5,420,239 08 1,533,722 57	2,225,065 55		$\frac{59}{30}$ 34
55,103 88	14,128,54 190,818,88 1,819,99	192,017 02		192,642 86	589.18	36 37
$\begin{array}{cccc} (1) & 296, 234 & 87 \\ & 744, 584 & 76 \end{array}$	87,000 00 330 350 00	14 754 04	$\begin{array}{c} 1,813 \\ 437,821 \\ 2,528,769 \\ 82 \end{array}$	608,954 81 1 528 114 89		38 39
23,054 67	6,496 59 9 000 00	14,754 04 110 67	45,496 59 238,265 34		44,180 61	42 43
	$3,13572 \\ 2,10054$		$\begin{array}{r} 45, 496\ 59\\ 238, 265\ 34\\ 17, 135\ 72\\ 40, 074\ 21\\ 242, 500\ 59\\ 36, 409\ 81\\ 10, 530\ 58\\ 21, 402\ 92\\ 3, 958, 258\ 97\\ 9, 179\ 03\\ 158, 570\ 39\\ 64, 585\ 52\end{array}$	8,133 00	16,925-51 27,680-81	42 43 45 46
23,316 71 57,397 24	13,639 $352,589$ 81	114 00	242,500 59 36,469 81	4,593-60		$\frac{48}{51}$
5,499-98	5,030 60	$\begin{array}{r} 402 & 92 \\ 213, 415 & 09 \end{array}$	10,530 58 21,402 92	6,793-18	20.959-62	$\frac{53}{54}$
1,506,955 48	709,331 81 7,257 30	213,415 09 75 00	3,958,258 97 9,179 03	2,414,476 49 13,363 09		$55 \\ 65$
42,935 16	$\begin{array}{c} 22,200 & 00 \\ 11,055 & 52 \end{array}$	$213,413 03 75 00 \\ 2,694 56 \\ 2,100 00$	$\begin{array}{c}158,570&39\\64,585&52\\403,874&12\end{array}$	6,952 05	43,842 30	66 67
	92,38244	$\begin{array}{r} 441,201 \\ 53,350 \\ 00 \end{array}$	403,874 12	$\begin{array}{c c} 24,615 & 72 \\ 216,610 & 72 \\ \end{array}$		68 71 72 74 76 77 78
541,009 22	503,416 61 12,929 70 15,490 24	53,350 00	4,332,540 83 342,929 70 202,005 00	3,321,291 00 53,618 83		74
$\begin{array}{r} 17,590 & 90 \\ 152,914 & 05 \\ 456,233 & 92 \end{array}$	45,480 54 84,277 40	0.00 000 50	863,681 67	101,867 56		77
94,512 12	$\begin{array}{c} 503, 416 \ 61\\ 42, 929 \ 70\\ 45, 486 \ 34\\ 84, 277 \ 40\\ 315, 162 \ 35\\ 28, 755 \ 58\\ 135, 932 \ 20\\ 142, 161 \ 39\\ 31, 354 \ 35\\ \end{array}$	962,886 52 43,364 79	$\begin{array}{c} 829,583 \ 97\\ 4,332,540 \ 83\\ 312,929 \ 70\\ 863,681 \ 67\\ 2,808,682 \ 79\\ 232,120 \ 37\\ 1,017,104 \ 32\\ 1,259,651 \ 35\\ 336,246 \ 89\\ 181 \ 00\\ 3 \ 499 \ 817 \ 56\end{array}$	310 913 96	43,842 30	80 83
99 703 96	133, 552, 20 142, 161, 39 31, 354, 35	62,303-53	1,259,631 35 336 246 89	185, 515 72	43, 426 15	- 86
$\begin{array}{r} 42, 133 & 20\\ 181 & 00\\ 3, 137, 633 & 73\\ 1, 123 & 33\end{array}$	355,183 83		$181 00 \\ 3,492,817 56$	$489 41 \\ 1.019.507 00$		- 87 - 88
1,123 33	4,667 25 22,936 45		5,790 58 180,091 45	6,074 34		88 92 93
28,500 00	$40,228 12 \\ 12,110 01$	33,000 00	387,919 64 73,385 29	32,937 36	25,240 91	-94
341,318 77			$\begin{array}{c} 65,296&44\\ 8,655&21 \end{array}$	285,584 74	25,240 91 470 33	95 96
341,318 77	$36,921 \ 65 \ 3,729 \ 69$	137,748 26	984,988 68 87,729 69	17, 499-60	75,974 06 10,682 13	98 105 105
718,108 77	800 00 81,079 05	$\begin{array}{c} 137,748 \ 26\\ 274 \ 50\\ 62,245 \ 70\end{array}$	65,296 44 $8,655$ 21 $984,988$ 68 $87,729$ 69 $7,141$ 17 $1,030,183$ 52 $549,897$ 38 $104,996$ 64 984 808 18	209,936 80		$106 \\ 107 \\ 109$
549, 897-38	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		104,000 04	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	11,444 08	$108 \\ 110 \\ 111$
57,602 76	34,836 45	l	284,808 18	430 41	[111

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Table III—

		9	10
			DEDUCTIONS
	Name of Company.	Interest on funded debt, accrued.	Interest on interest bear- ing current liabilities <i>accrued</i> not otherwise provided for.
$-114 \\ -115$	Toledo, St. Louis & Kansas City Wabash	\$2,801,920 82 15,000 00	
	Totals	\$43, 289, 334 96	\$538,628 87

Continued.

11	12	13	15	16		
FROM INCOME.						
Rental of leased lines.	Taxes.	Other deductions.	Total deduc- tions from income.	Net income.	Net deficit.	
\$60,900 00 527,540 22	$\$36,000\ 00\ 396,490\ 54\ 3,025\ 36\ 35,321\ 04$	\$454,982 87	$\begin{array}{c} \$36,000\ 00\ 3,714,294\ 23\ 18,025\ 36\ 562,861\ 26\end{array}$	237,791 50		112 114 115 116
\$13,810,097 01	\$8,467,080 58	\$3,763,766 05	\$69,868,907 47	\$29,591,581 84	\$1,384,172 13	

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Includes rent of equipment.
 Paid by lessor company.

		17	18	19	20	21	
	NAME OF COMPANY.	Divii	ENDS	DECLARED.		0.1	
	NAME OF COMPANY.	Preferr'd S	TOCK	Common St	Other payments from net income.		
		Amount.	Rate per cent.	Amount.	Rate per cent.		
1	Atchison, Topeka & Santa Fe Baltimore & Ohio						
5	Baltimore & Ohio			•••••			
8	Centralla & Chester			•••••			
9	Chicago & Alton	\$278,360 00	8,	\$1,129,368 00	8.		
$-\frac{12}{13}$	Chicago & Calumet Terminal			•••••			
14	Chicago & Eastern Illinois	133,956 00	3.				
$-\frac{1}{20}$	Chicago & Jowa	••••				\$185,450 58	
- 21	Chicago & Northwestern	1,562,785 00	7.	1,882,194 00	6.		
23	Chicago & Unio River	••••	• • • • • •	••••	••••		
25	Chicago, Burlington & Quincy			3,437,667 00	4.5		
29	Chicago, Milwaukee & St. Paul	1,296,829-00	$\frac{12.5}{3.5}$				
30	Chicago, Peoria & St. Louis						
34 36	Chicago, Rock Island & Pacific	•••••	••••	1,846,229 00	4.	•••••	
37	Englewood Connecting						
- 38 - 39	Chicago, St. Paul & Kansas City	500.000.00	··· <u>;</u> ···	820,000,00		•••••	
42	Kankakee & Seneca					15 55	
43 45	Peoria & Eastern		• • • • • •		•••••		
- 46	East St. Louis Connecting					4,000 00	
$\frac{48}{51}$	Elgin, Joliet & Eastern						
53	Grand Tower & Carbondale						
$\frac{54}{55}$	Grand Tower & Cape Girardeau.				···		
- 55 65	Indiana & Illinois Southern			2,400,000 00			
66	Indianapolis, Decatur & Western					01 500 55	
$-67 \\ -68$	Indiana, filinois & Iowa	•••••	•••••	••••		81,080 /0	
71	Lake Erie & Western	355,200 00	3.				
72	Lake Shore & Michigan Southern			2,473,325 00	э.		
76	Louisville, Evansville & St. L., Con						
77 78	Michigan Central.	•••••		936, 910-20	5.	430,430 86	
- 80						00.074.07	
- 85 - 85	New York, Chicago & St. Louis	•••••		•••••		19, 154 25	
86	Ohio, Indiana & Western						
87	Pawnee. Penn Co (On Pitts Ft W & Chi)	•••••		•••••		• • • • • • • • • • • • • • • • • • • •	
88	Penn. Co. (Op. So. Chi. & Southern)						
92 93	Peoria & Pekin Union Peoria, Decatur & Evansville	••••					
94	Quincy, Om tha & Kansas City						
- 95 96	Ohio, Indiana & Western Pawnee Penn. Co. (Op. Pitts., Ft. W. & Chi.) Penn. Co. (Op. So. Chi. & Southern) Peoria, Decatur & Evansville Quincy, Om ha & Kansas City Rock Island & Peoria St. Louis, Alton & Springfield St. Louis & Chicago St. Louis & Poria Terminal Railroad Assoc. of St. Louis Terre Haute & Peoria	•••••		75,000 00	5.		
98	St. Louis, Alton & Terre Haute						
105	St. Louis & Chicago	••••		•••••••			
107	Terminal Railroad Assoc. of St. Louis						
108	Terre Haute & Indianapolis	••••					
110	Terro mauto de reoria						

for year	ending	June .	30, 1	890(Continued.
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22	23	24	25	26	27	28	
Total payments from net income.	Surplus for year ending June 30,1890	Defleit for year ending June 30,1890	Surplus on June 30,1889.	Deficit on June 30, 1889.	Balanee surplus car- ried for- ward to next year.	Balance deficit car- ried forward to next year.	
	\$105,772 40	\$229,109 75 424,363 18 805 91		\$1,179,23173 3,941,72623 602,04038			15789
\$1,407,728 00	231,056 10 (11)573,045 20	6, 887 93	\$2,493,242 14		(4)\$2,358,259 50	6,887 93	9 12 13
$\begin{array}{c} 133,956 \\ 185,450 \\ 58 \end{array}$	106,814 26 29,359 99		55,101 39 45,952 65		(5) 1 ,063,381 35 75,312 64		$ \begin{array}{c} 14 \\ 17 \\ 20 \end{array} $
3,444,979 00	577,923 89	$\begin{array}{c} 12,237 \\ 161,724 \\ 22 \end{array}$	5,042,579 52	17,750-33 501,804-58	(1)5,304,843 51	$\begin{array}{c} 29,988 \\ 663,528 \\ 80 \end{array}$	$ \begin{array}{r} 21 \\ 23 \\ 24 \\ 25 \end{array} $
3,437,667 00 1,296,829 00	812,467 60 928,856 33		9,279,141 57 1,538,682 44		10,091,609 17 (10)2,419,514 55		29
1,846,229 00	$\begin{array}{c} 142,662 \ 74 \\ 138,649 \ 89 \\ 192,642 \ 86 \end{array}$			536,598 50 933,408 18	142,662 74	$397.948 \ 61 \\ 740,765 \ 32$	30 34 36
1,320,000 00	608,95481 208,11489	588 48	449,538 52	(3)	608,954 81 (9) 633,717 40	(37 38 39
15 55 4,000 00		44,196 16 16,925 51	30,971 39 64,320 84	1	35,104 39	$288,455\ 66\\16,925\ 51$	42 43 45
••••••	4,593 60 6,793 18	27,680 81 37,174 07	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	29,979 19	$\begin{array}{r} 36,640 & 03 \\ 7,798 & 64 \\ 18,464 & 51 \end{array}$	67,153 26	46 48 51 53
2,400,000 00		20, 959-62	$5,890,527 10 \\21,843 44$		5,905,003 59 35,206 53	20.959-62	$53 \\ 54 \\ 55 \\ 65 \\ 66 \\ 67$
81,586 75		$\begin{array}{r} 43,842&30\74,634&70\end{array}$	21,010 11	$\begin{array}{r} 70,472 & 66 \\ 2,898,176 & 44 \\ 20,773 & 36 \end{array}$		114,31496 2.972.81114	66 67 68
355,200 00 2,473,325 00	847,966 00 53,618 83	138,589-28	391,640 28 10,833,821 94	30,272 74	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		71 72 74
1,367,341 06	69,108 $65101 867 56$		(14) 807, 423 47 (13)1,135,985 06 7,125,828 38		876,532 12 1,237,852 62 (6)6,879,181 34		
99,954-25		43,426 15	237,919-34	$\begin{array}{c} 68,879 & 63 \\ 1,182 & 71 \end{array}$	423, 122, 00 423, 435, 06		83
	$\begin{array}{r} 489 \ 41 \\ 1,019,507 \ 00 \end{array}$	187,078 54		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	489 41		86 87 88 88
	6,074 34	25,240 94	$\begin{array}{r} 70,690 \\ 181,864 \\ 16,228 \\ 34 \end{array}$	5,985 34	$\begin{array}{r} 76,765 \\ 156,623 \\ 49,165 \\ 70 \end{array}$		88 92 93 93
75,000 00	$\begin{array}{r} 32,937 \\ 210,584 \\ 74 \\ 17,499 \\ 60 \end{array}$	470 33	435,678 24 14,056 65		$\begin{array}{c} 49,165 \\ 646,262 \\ 13,586 \\ 301,438 \\ 57 \end{array}$		94 95 96 98
	209.936 80	75,974 06 10,682 13	(8) 283,938 97	81,434 99 53,734 78		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	105
	209,950 80 108,852 90		16, 339-68	92, 425 04	125.192.58		108

Ia	ble	III
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		17	18	19	20	21		
	NAME OF COMPANY.	Divii	DENDS	DECLARED.				
	NAME OF COMPANY.	Preferr'd S	ock.	Other payments from net				
		Amount.	Rate per cent,	Amount.	Rate per cent.	income.		
111 112 114	Toledo, Peoria & Western Toledo, St. Louis & Kansas City					(12)\$470,352 09		
115 116	Wabash. Wabash, Chester & Western Wisconsin Central Lines							
	Totals	\$4,127,130 00		\$15,000,693 20	·····	\$1,271,790 08		

Less \$315,659.90 charged to income account C., St. P., M. & O. R. R.
 Includes \$133,862.56, balance improvement account.
 \$731,358.29 created during construction period, charged to cost of road.
 Surplus on June 30, 1890, less \$366,038.74 charged to permanent improvements.
 Includes \$001,465.70, increase in ledger value of other stocks owned.
 Less accrued interest, \$397,742.60, not heretofore deducted.
 Includes \$6,045.75 discount on bonds of company purchased.
 Difference between amount here reported and amount reported in last year's report as surplus on June 30, 1889, is caused by a change in the method of auditing taxes.

## Continued.

22	23	24	25	26	27	28	
Total payments from net income.	Surplus for year ending June 30,1890	Deficit for year ending June 30,1890	Surplus on June 30, 1889.	Deficit on June 30, 1889.	Balance surplus car- ried for- ward to next year.	Balance deficit car- ried forward to next year.	
\$470, 352 09	237,791 50 1,247,349 82	\$3,375 70		75,286 79	1,247,349 82		$     \begin{array}{r}       112 \\       114 \\       115 \\       116 \\     \end{array} $

(9) Less net deductions for year, \$23,936.01.
(10) Less net deductions for year, \$48,024.22.
(11) Surplus to balance, \$38,973.16.
(12) Turned over to contractors.
(13) Does not include \$123,397.49, deductions for year.
(14) Includes \$384,501.85 additions during current year.

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TABLE IV.—Total Earnings from Operation in Illinois, for year ending June 30, 1890.

1			~∞o <u>6</u> ]e	a27855	83888838	888444	885222568
οı	Total pas- senger department.	\$462,553 86 36,980 74	$\begin{array}{c} 2.\ 608\ 45\\ 1,\ 979,\ 820\ 54\\ 39,\ 257\ 05 \end{array}$	474, 619 14 148, 055 68 157, 110 41 1, 025, 103 84	$\begin{array}{c} 1.0, 163 \\ 1.03, 540 \\ 1.897, 427 \\ 1.897, 427 \\ 1.897, 427 \\ 1.838, 776 \\ 1.6383, 176 \\ 1.664, 504 \\ 1.1564, 504 \\ 1.1564, 5068 \\ 0.11 \\ 7.8, 068 \\ 0.11 \end{array}$		$\begin{array}{c} 18,085,69\\ 19,476,18\\ 10,446,03\\ 10,446,37\\ 2,329,527,52\\ 13,954,64\\ 21,829,644,21\\ 82,644,21\end{array}$
4 ENT.	From other sources.	\$947 13 281 65	827 46	3, 878 14 120 00 2, 565 14	$\begin{array}{c} 155 & 17\\ 9, 559 & 99\\ 12, 007 & 11\\ 12, 007 & 11\\ \end{array}$	43, 062	67, 480-27 1034-50
PASSENGER DEPARTMENT	From ex- press and ex- tra baggage.	\$63,163 76 2,478 35	249 67 145,886 42 3.591 09	38, 037 25 16, 898 70 16, 898 70 24, 999 96 24, 871	$\begin{array}{c} 7, 001 & 50\\ 7, 000 & 40\\ 169, 740 & 41\\ 40, 749 & 61\\ 27, 249 & 61\\ (1)40, 226 & 50\\ 6, 338 & 88\end{array}$	$\begin{array}{c} 17,905 \\ 86,341 \\ 54 \\ 2,400 \\ 7,402 \\ 62 \end{array}$	2,500 00 2,550 70 105 56 105 00 105 00 105 11 1,655 11 1,655 11 1,655 11 9,703 71
2 PASS1	From mails.	\$22, 427 49 3, 261 02	$\begin{array}{c} 261 & 92 \\ 130, 993 & 09 \\ 1, 334 & 26 \end{array}$	$\begin{array}{c} 21,97241\\ 4,11862\\ 15,83632\\ 80,93020\\ 80,92022\end{array}$	240, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25	$\begin{array}{c} 14,15058\\ 108,15181\\ 1,86220\\ 8,00390\end{array}$	2, 227 2, 227 1, 219 376 74 188, 209 8, 209 8, 213 8, 213 64
-	From passengers.	\$376,015 48 30,959 72	$\begin{array}{c} 2,096 & 86 \\ 1,702,941 & 03 \\ 33,504 & 24 \end{array}$	410, 731 34 126, 898 36 116, 274 13 873, 736 90	$\begin{array}{c} 12, 101\\ 87, 953\\ 87, 953\\ 1, 477, 2^{\circ}2\\ 336, 168\\ 1336, 168\\ 193, 655\\ 29\\ 193, 655\\ 29\\ 19471, 859\\ 52\\ 69, 876\\ 59\\ \end{array}$	$1, \frac{186}{021}, \frac{683}{617}, \frac{06}{40}$ $11, 290, 36$ $74, 008, 65$	$\begin{array}{c} 14,557,59\\ 13,756,49\\ 9,058,33\\ 9,058,33\\ 1,865,922,19\\ 10,602,320\\ 63,762,36\end{array}$
	NAME OF COMPANY.	1 Atchison, Topeka & Santa Fe	Pent trainea & Oromoago Pentraina & Chester 9 Chicago & Alton 12 Chicago & Altantic	Chicago & Chicago & Chicago & Chicago &	21 Chicago & Dur Arver 22 Chicago Burlington & Northern 23 Chicago Burlington & Quincy 23 Chicago, Milwaukee & St. Paul 30 Chicago, Peoria and St. Louis 31 Chicago, Peoria land St. Louis 33 Chicago, Rock Island & Paulie	<ul> <li>Englewood Connecting</li> <li>Si Chicago, Si, Paul &amp; Kansas City</li> <li>Cheviand, Cincinnati, Chicago &amp; St. Louis.</li> <li>Kankakee &amp; Seneca.</li> <li>Fooria &amp; Eastern</li> <li>Fast FL, Conis &amp; Carondeleft</li> </ul>	af East St. Touis Connee ing striptin, Jolie & Easten

1991111111102028888888888888888888888888	_
	\$17,463,866 77
29 32 29 46 1, 500 00 1, 500 00 3, 348 54 3, 348 54 79 1, 534 13 1, 534 13 1	\$193, 431 79
2, 719 44 2, 719 44 2, 719 44 2, 719 44 2, 719 45 2, 748 55 2, 748 55	\$1,479,541 07
2, 902 33 9, 470 33 9, 470 35 9, 470 35 9, 470 35 11, 924 95 3, 984 65 3, 986 65 5, 806 65 5, 806 65 5, 806 65 6, 830 55 11, 927 85 11, 927 85 5, 806 65 5, 806 65 5, 806 65 5, 806 65 11, 927 85 11, 927 85 5, 806 65 5, 7, 806	\$1,579.848 98
6,828,829 (1,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2	\$14,211,044_93
<ul> <li>Indiana, Illinois &amp; Iowa.</li> <li>Ilake Brie &amp; Western.</li> <li>Inisville, Fwansville &amp; St. Louis Consolidated</li> <li>Mobile &amp; Ohio</li> <li>Mobile &amp; Ohio</li> <li>Mobile &amp; Ohio</li> <li>Mobile &amp; Ohio</li> <li>Mobile &amp; Chieago &amp; St. Louis</li> <li>Onio, Indiana &amp; Western</li> <li>Pawne</li> <li>Pawne</li> <li>Peoria, Decatur &amp; Fwansville.</li> <li>Peoria, Decatur &amp; Fwansville.</li> <li>Peoria, Decatur &amp; Fwansville.</li> <li>Peoria, Joeatur &amp; Fwansville.</li> <li>Peoria, Joeatur &amp; Fwansville.</li> <li>Peoria, Joeatur &amp; Springfield.</li> <li>Richer Haute &amp; Rontan.</li> <li>St. Louis &amp; Ploina.</li> <li>St. Louis &amp; Rontan.</li> <li>St. Louis &amp; Ploina.</li> <li>St. Louis &amp; Ploina</li></ul>	Totals

(1) Estimated by office.

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Table IV.-Total Earnings from Operation in Illinois-Continued.

	9	2	œ	5	10	1
ANTERVOJ AV ANTA	FRE	FREIGHT DEPARTMENT.	NT.			
	From freights,	From other sources.	Total, freight department.	From other sources-Mis- cellaneous,	Total earnings from operation.	
1 Atchison, Topeka & Santa Fe 5 Battimore & Ohio 7 Helt Ray Ohio	\$1,983,619 43 99,692 92 622,241 43	83,818 26 35 21,478 15	\$1,987,437 69 99,693 27 643,719 58	\$70,677 22	\$2,520,668 77 136,674 01 643,719 58	20
8 Centralia & Chester 9 Chicago & Atlantia. 12 Chicago & Atlantia.	$\begin{array}{c} 2,578 \ 44 \\ 4,016,918 \ 68 \\ 140,276 \ 76 \end{array}$		$\begin{array}{c} 2.578 \ 44\\ 4.016, 918 \ 68\\ 140, 276 \ 76\end{array}$	37, 949 58	5,186 6,034,688 187,524	& 다 <u>더</u> 알
18 Chicago & Calumet Terminal 14 Chicago & Eastern Illinois 17 Chicago & Grand Trunk.	1,406,365 39 284,865 64	36, 356 35	1,442,721 74 284,865 64	4, 201 02 46, 154 64	1,963,495 432,901	111
Chicago	296,676 70 2,739,981 66		296, 676 70 2, 742, 552 68 54 006, 13	$\begin{array}{c} 22,745 \ 99 \\ 16,366 \ 73 \\ 60 \ 60 \end{array}$	476, 533 - 3, 784, 023 - 70, 319	828
24 Chicago, Burlington & Northern 25 Chicago, Burlington & Northern 29 Chicago, Burlington & Quinoy 29 Chicago, Milwaukee & St. Paul	430,162,66 4,728,665,90 1,030,539,94	2, 535 06 9, 733 82	$\begin{array}{c} 430,162,162\\ 4,731,200,96\\ 1,040,273,76\end{array}$	2, 251 15 148, 593 95 8, 815 79	535, 953 87 6, 777, 221 98 1, 487, 809 95	នឹងឱ
30 Chicago. Peoria & St. Louis 31 Chicago. Rock Island & Pacific 33 Chicago. St. Louis & Pittsburgh	$\begin{array}{c} 445,01987\\ (1)1,331,35092\\ 202,09921\end{array}$		$^{+15,019}_{(1)1,331,350}$	(1)43,93935 5,11615	$     \begin{array}{c}       083, 196 03 \\       1, 939, 794 38 \\       285, 283 97 \\       285, 283 97 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\       104 70 \\  $	8281
80 Lugiewood Connetum	1,010,543 53 2,695,927 01 48,150 00		1,010,543 53 2,794,587 71 48,150 00	23, 121, 78 28, 391, 39 88, 944, 50 179, 39	1, 300, 735 93 4, 099, 642 96 63, 881 95	5883
13 Pooria & Baston Bast St. Louis & Caronfelet. 66 Bast St. Louis & Caronfelet.	$167,159 04 \\ 168,842 13 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,703 82 \\ 149,700 82 \\ 149,700 82 \\ 149,700 82 \\ 149,700 82 \\ 149,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140,700 82 \\ 140$	22.088	167,539 81 68,842 13 68,842 13 149,703 82	11,639 65	257,093 26 80,481 78 149,703 82	<u>4</u> 44
8 Elgin, Joliet & Eastern 16 Futhon County Narrow Gauge 23 Grand Tower & Carbondale.	422, 707 25 27, 589 30 72, 374 00		22, 707 25 27, 589 30 72, 374 00	967 62	440,792 47,059 83,788 14,018	9583
66 Indianapolis, Decatur & Vere Ortatuceau 66 Indiana & Illinois Southern	6,079,589 60 35,036 06. 133,863 30	9,155 47	$ \begin{array}{c} 6,088,745 & 07\\ 35,036 & 06\\ 135,554 & 11\\ \end{array} $	757, 334 14 1, 237 31	9,175,606 50,228 218,198	888

58i	22	22	59	88	88 è	88	28	20 00 20 00	8	83	95	96	20 20 20 20 20 20 20 20 20 20 20 20 20 2	33	107	108		112	FII	116	
193, 637 76 331, 799 24	18	98	88	ĝŝ	5	956	7	<u>8</u> 8	8	22	-8	ii.	82 E	38	750	6	220	14	121	36	\$63, 490, 253 31
202 17	1,563 68			1,756.62	350.85			3,517 $62758$ $00$		in the second se										106 43	\$1,892,789 23
181, 756 97 283, 036 06	212	307 938	052	883 883	202	55 8 1 9 8 1 9 8	265	15	819	08 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		884	658	9 2 2	643	661	Ξŝ	151	505	12	\$44,133,597 31
5 02 20	22, 129 24		1,451 39										•••••••••••••••••••••••••••••••••••••••				19 703 39		51,488 09	2, 738 13	\$276,891 23
181, 756 97	205,582 96	664, 307 52 . 121 938 84	63,601 52	335,205 861. 566,525 45	184, 397 35	1,233,325 921. 160,864 391.	2,265 24	260, 722 37 .	40.819 19	397,280 30	200,000 23	72.884 57	926,658 82	36,006 151. 8 795 09	595.643 13	1, 163, 661 39	240, 161 04 . 583 131 70	371.451 50	3,086,017 51	40,211 74. 408,332 51.	\$43,856,706 08
67/Indiana, Illinois & Iowa. 68/Iowa Central	71 Lake Erie & Western	74 Louisville & Nashville et Tonie Consolidated	77 Louisville. New Albany & Chicago	78 Michigan Central	83 New York, Chicago & St. Louis	85 Ohio & Mississippi	- 1	88 Pennsylvania Co. (Op. Pittsburgh, Ft. Wayne & Chicago)		93 Peoria, Decatur & Evansville.	94 Quincy, Umana & Aansas City	West Tonic Alton & Suringfield	98 St. Louis, Alton & Terre Haute.	106 St. Louis & Chicago	100 St. LOUIS & FUITA	108 Terre Haute & Indianapolis	110 Terre Hauto & Peoria	111/10/6400, FOURI & WESPELL	114 Wabash.	115 Wabash, Chester & Western	Totals

(1) Estimated by office.

	1	133333333333222222444444444444444444444
10	Total earnings and income in Illinois.	25, 552, 701 57, 55, 557, 56, 56, 57, 571 57, 55, 55, 571 57, 56, 56, 57, 571 56, 56, 57, 571 56, 56, 57, 579 56, 56, 57, 579 56, 56, 57, 579 56, 579 56, 579 56, 579 56, 579 56, 579 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 569 56, 579 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599 56, 599
~+	Miscellaneous income less expenses.	29, 033         10           7, 949         25           94         49           11, 103         55           11, 103         55           11, 103         55           11, 103         55           11, 103         55           11, 103         55           11, 103         55           11, 103         55           11, 103         55           11, 103         55           11, 103         55           11, 104         55           11, 105         55           11, 105         55           11, 105         55           11, 105         55           11, 105         55           11, 56         56           11, 56         56           15, 55         54           77, 968         90           77, 968         90           7, 96         56           7, 96         56           11, 56         56           125         57           136         58           145         58           156         58           160 </td
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Dividends on stocks owned.	26, 102 00 2, 100 00 2, 100 00 2, 101 5, 643 51 7, 328 99 7, 328 99 7, 328 99 181, 380 32 5, 429 84 1, 100 000 11
61	Interest on bonds owned.	2233, 2300 00 556 80 63 22 (1) 529 33 (1) 529 58 13, 520 80 13, 520 80 13, 520 80
FI I	Gross earn- ings from operation.	9. 520, 668 7.1 136, 673 136, 673 0. 137, 1369 58 6. 137, 1369 58 1. 137, 1369 58 1. 137, 1369 58 1. 147, 533 1. 1. 138, 139 58 1. 147, 533 1. 1. 158, 139 3. 7. 169, 177, 129 1. 1. 178, 139 2. 1. 178, 139 2. 1. 178, 139 2. 1. 179, 139 2. 1. 190, 133 2. 1. 110, 126 2. 1. 111, 126 2. 1. 111, 126 2. 1. 111, 126 2. 1. 111, 126 2. 1. 111, 126 2. 1. 111, 126 2. 1. 111, 126 2. 1.
	NAME OF COMPANY.	1 Atchison, Topeka & Santa Fe. 5 Baltimore & Oho. 5 Baltimore & Oho. 5 Belt Falavay of Chicagoo 6 Chicago & Altanti. 1 Chicago & Altanti. 1 Chicago & Altanti. 1 Chicago & Chaud Thunk. 1 Chicago & Grand Thunk. 1 Chicago & Grand Thunk. 1 Chicago & Grand Thunk. 2 Chicago & Morthern. 3 Chicago & Morthern. 3 Chicago & St. Douls. 3 Chicago, St. Louis. 4 Paulewood Connecting. 5 Faulewood Connecting. 6 Fankakee & Sence. 7 Faulewood Connecting. 8 Chicago, St. Louis. 9 Chicago, St. Louis. 9 Faulwakee & Sence. 9 Chicago, St. Louis.

TABLE V. Total Earnings and Income in Illinois for year ending June 30, 1890.

$\begin{array}{c} 520, 730\\ 727, 094\\ 2, 059, 054\\ 2, 059, 867\\ 376\\ 976\\ 054\end{array}$	3,274 80 3,274 80 437,377 36 28,193 15	662,075 20 662,075 20 10,958 70 660,666 00 115 711 93	1, 651, 604 37 62, 710 60 9, 009 24 866, 121 33 1 833 991 36	4, 540, 277, 73 938, 830, 50 938, 830, 50 938, 930, 50 4, 541, 768, 97 61, 327, 26 614, 993, 177	29\$
323 76 425 37	70,383 44	$1,181 \ 02 \\ 4,000 \ 00$		33,850 00 73,811 50 1 74	\$1,175,293 22
					#323, 582, 68
11, 770 38		00 019		17, 000 00	#482, 365 60 #323, 582 68
1 76 11, 770 38 11, 770 38 12, 11, 770 38 12, 11, 12, 12, 12, 12, 12, 12, 12, 12,	3.274 800 3.65, 933 92 25, 139 15 25, 139 15		207, 302, 50 04, 101, 06 10, 019, 24 815, 750, 08 835, 671, 08	2 340, 277 78 1940, 1971 77 1941, 1949 50 1943, 1971 47 14450, 1977 47 117, 000 60 11327 25 113, 000 60 114, 900 100 117, 000 60 117, 000 60 117, 000 60 117, 000 60 118, 000 100 118, 000 100 117, 000 100 118, 0	\$482,365 60
508,869 76 727,094 91 199,731 12 2,059,442 30 2,059,442 30	3,274 80 366,993 92 28,193 15	662,075 20 9,777 68 656,026 00 115,711 98	$1, 207, 302, 80 \\ 0.2, 710, 60 \\ 0.002, 24 \\ 815, 750, 08 \\ 1, 832, 001, 96 \\ 1, 832, 001, 96 \\ 1, 833, 001, 96 \\ $	438,014 96 904,980 50 438,014 96 4450,957 47 614,991 43 614,991 43	\$63, 490, 253 31
8 Michigan Central Mobile & Ohio 80 Nev York, Chraago & St. Louis 60 Ohio & Mississiphi 60 Ohio & Mississiphi	87] Parros Anneaera & Prostant 88] Pennsylvania Co. (Op. Pittsburgh, Ft. Wayne & Chic.) 88] Pennsylvania Co. (Op. South Unicago & Southorn)	ar Footia & Fokun Muou 19 Quiney, Omaha & Kansaville 9 Quiney, Omaha & Kansas City 96 Rock Island & Peoria	98 St. Louis, Alton & Terre Haute. 105 St. Louis & Cheago 106 St. Louis & Peoria 106 Terrinal Railyoad Association of St. Louis. 106 Terren Haute & Indiananolis	10 Terre Haute & Pooria. 11 Toledo, Peoria & Nestern 12 Toledo, St. Jouis & Kansas City. 11 Wabash. 116 Wabash, Chestro & Western 116 Wabash, Chestro I, Anes.	Totals

(1) Estimated by office.

TABLE VI.-Operating Expenses in Illinois for year ending June 30, 1890.

1			1855855555555494949495555555555555555555
5		Total.	331 551, 317 351, 317 875, 317 253, 337 553, 317 876, 317 253, 337 555, 317 876, 317 36, 317 557, 317 876, 317 36, 317 557 876, 317 36, 317 557 876, 317 36, 317 557 876, 317 373, 557 51 876, 317 111, 173 52, 557 876, 317 113, 553 51 888 11, 14, 173 426 888 11, 14, 173 426 873, 317 113, 346 67 888 173, 553 466 888 173, 553 56 888 173, 553 56 888 173, 553 56 888 173, 553 56 894 173, 553 56 894 198 198 895 198 50 894 198 50 894 198 517
4	R TRAFFIC.	General expenses.	366, 830 3, 956, 830 5, 775 5, 775 7, 775 7, 775 7, 775 7,
ŝ	CHARGEABLE TO PASSENGER TRAFFIC.	Conducting transportation.	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \end{array} \end{array} \\ \hline \\ \end{array} \\ \end{array}$
5	CHARGEABL	Maintenance of equipment.	(1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
1	-	Maintenance of way and structures.	31,33,340 31,33,340 31,33,340 35,340 31,33,340 962,333 32,341 55,370 31,325 55,393 31,325 55,393 31,325 55,393 31,325 55,393 32,325 55,393 33,325 55,393 31,325 55,393 32,325 55,393 33,325 55,393 34,455 55,393 35,314,155 56,393 31,316 57,77 32,355 56,565 34,455 56,565 34,455 56,565 35,555 56,565 36,555 56,565 36,555 56,565 36,555 56,565 36,555 56,565 36,555 56,565 36,555 56,565 36,555 56,565 36,555 56,565 36,555 56,565 36,555 56,565 <
	NAME OF COMPANY.		1 Atchison, Topeka & Santa Fe 5 Baltimore & Ohio. 7 Belt Ballway of Chicago. 8 Centeargo & Altanto. 9 Chicago & Altandati. 13 Chicago & Eastern Illinois. 13 Chicago & Forta. 13 Chicago & Orio River. 13 Chicago & Nothwestern. 14 Chicago & Nothwestern. 15 Chicago & Nothwestern. 16 Chicago & Nothwestern. 17 Chicago & Nothwestern. 18 Chicago & Roth & Nothern. 19 Chicago Rothard & Nothern. 10 River. 11 States. 11

11111111111111111111111111111111111111	
99,618 99,121 98,628 99,121 98,628 98,188 96,121 88,818 96,618 99,121 98,628 98,188 98,128<	689 246
8,179 8,179 8,179 8,179 8,189 8,189 8,189 1,1,199 1,199	385
**************************************	831 423
1, 6, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	52 22
11. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	430
 ⁷²Lake Shore & Michigan Southern ⁷⁵Louisville & Nashville & St. Louis, Consolidated 76 Louisville, New Albany & Chicago. 77 Louisville, New Albany & Chicago. 78 Mobile & Oho. 80 Mobile & Oho. 81 New York. Chicago & St. Louis, St. St. Soush & Chicago. 82 New York. Chicago & St. Louis 83 New York. Chicago & St. Louis 84 Ohio. Indiana & Western. 85 Pennsylvania Co. (Operating South Chicago & Southern). 94 Quino; Indiana & Kansas Oity 94 Quino; Jonaha & Kinasas Oity 95 Beoria. Alton & Springfield. 96 St. Louis, Alton & Springfield. 97 Elouis, Alton & Springfield. 98 Louis, Alton & Springfield. 98 Louis, Alton & Springfield. 98 Louis, Alton & Springfield. 99 St. Louis & Pooria. 90 St. Louis & Roeria. 90 St. Louis & Roeria. 90 St. Louis & Roeria. 90 St. Louis & Kianaso Oity 91 Olice Association of St. Louis 91 Olice Association of St. Louis 91 Olice Association of St. Louis 91 Olice St. Louis & Kianaso Oity 	

(1) Estimated by office.

11		Grand total op- erating ex- penses in III.	 S1, 797, 663 74 400, 942 89 400, 942 89 400, 942 89 5, 942 80 133, 700 63 133, 900 63 130, 900 63 130	
10	c.	Total.	\$1,28,385 \$0 \$1,28,385 \$0 \$1,38,385 \$0 \$1,38,385 \$0 \$1,38,385 \$0 \$1,38,355 \$0 \$1,38,355 \$0 \$1,38,355 \$0 \$1,38,355 \$0 \$1,38,355 \$0 \$1,38,355 \$0 \$1,38,355 \$0 \$1,38,355 \$0 \$1,38,357 \$0 \$1,38,357 \$0 \$1,38,357 \$0 \$1,38,357 \$0 \$1,39,357 \$0 \$1,39,357 \$0 \$1,39,357 \$0 \$1,39,357 \$0 \$1,39,357 \$0 \$1,39,357 \$0 \$1,39,357 \$0 \$1,39,357 \$0 \$1,39,357 \$0 \$1,39,357 \$0 \$1,39,357 \$0 \$1,39,357 \$0 \$1,39,357 \$0 \$1,39,357 \$0 <td></td>	
6	'reight Traffi	General expenses.	313, 112 313, 112 313 9, 016 55 316 35 9, 016 55 316 35 9, 016 56 316 36 10, 55 36 315 35 10, 55 36 33 355 46 11, 125 35 366 33 36 36 11, 125 35 366 33 36	
80	Снаксеавые то Екеіснт Ткағғіс.	Conducting transportation.	3665, 559 74 5665, 559 74 2,605, 559 74 2,605, 559 74 2,605, 559 74 2,605, 559 75 2,605, 559 74 2,605, 559 75 2,605, 559 75 2,605, 559 75 2,605, 750 55 2,905, 750 55 1,127, 559 58 1,257, 563 58 1,257, 563 58 1,277, 563 58 1,277, 563 58 1,277, 563 58 1,365, 515, 74 111 2,5,145 111 2,5,145 111 2,5,145 111 2,5,145 111 2,5,145 111 2,5,145 111 2,5,145 111 2,5,145 111 2,5,145 111 2,5,145 111 2,5,145 111 2,5,145 111 <td></td>	
ž	CI	Maintenance of equipment.	CD 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	on, w
9		Maintenanes of way and structures.	21 32<	
NAME OF COMPANY.			Atchison, Topeka & Santa Fe. Baltimore & Oho. Baltimore & Oho. Scentrala & Chester. Scentrala & Chester. Billinore & Oho. Bolicago & Alton. Bolicago & Alton. Chicago & Alton. Billinore & Oho. Bolicago & Calumet Terminal Billino Chicago & Calumet Terminal Billineago & Calumet Terminal Billineago & Calumet Trunk. Billineago & Enstern Illinois. Billineago & Enva. Billineago & Lowa. Billineago & Lowa. Billineago & Bastern Illinois. Billineago & Lowa. Billineago & Louis & St. Louis. Billineago & Louis & St. Louis. Billineago & Louis & Pittsburgh. Billineago & Louis & Carondelet. Billineago St. Louis Connecting. Fankatee & Sanca. Bilgin. Joliet & Rastern. Bilgin. Joliet & Carbondelet.	WITCH AN ALTER AVAILABLE AN ALTER AVAILABLE AVAILAB

Table VI.-Operating Expenses in Illinois-Continued.

22282888888888888888888888888888888888	1
2011, 2011,	\$40,059,894 30
225, 225, 225, 225, 225, 225, 225, 225,	\$27, 222, 647-99
4448	\$2,682,766 63
113.29 20,055	\$14,497,094.27
9,9,9,7,9,8,8,5,7,9,7,9,7,9,7,9,7,9,7,9,7,9,7,9,7,9,7	\$4,590,129 18
7 7 7 7 7 7 7 7	\$5, 452, 657 91
 Z. Lake Shore & Michigan Southern. T. Louisville, & Nashyille. T. Louisville, New Albary & Li, Consolidated. T. Louisville, New Albary & Chicago. S. Mohle & Ohto. S. New York. Chicago & St. Louis. S. New York. Chicago & St. Louis. S. Ohto, Indiana & Wostern. Mohle & Ohto. S. Dawnee, New Albary & Chicago. S. Diro, Indiana & Wostern. S. Penris, Persing P., Fr, W. & C. S. Penris, Persing Co. (Operating P., Fr, W. & C.). S. Penris, Albary & Evansville. S. Penris, Alon & Fernansoville. S. Penris, Alon & Springfield. S. Louis, Alon & Terre Hauto. S. Louis, Alon & Perra. S. Louis, Alon & Soria. S. Louis, Alon & Vestern. S. Louis, Alon & Sternagild. S. Louis, Alon & Sternasoville. S. Louis, Alon & Sternasoville. S. Louis, Alon & Sternasoville. S. Louis, Alon & Vestern. S. Louis, Alon & Sternasoville. S. Louis, Alon	Totals

(1) Estimated by office.

-6 R. R.

TABLE VIL.—Operating Expenses, Taxes and Average Earnings per mile of road, in Illinois, for year end-ing June 30, 1880.

=	Net	loss per mile	88 21 97 198
10		Net earnings per mile	1 62 452 1 640 32 1 640 32 1 640 32 1 641 36 1 641 36 1 641 36 1 643 36 1 1 643 1 1 643 1 1 643 1 1 643 1 1 643 1 1 632 2 014 06 3 1 653 1 10 2 1 10 2 1 10 2 1 10 2
6		Expenses per mile	$\begin{array}{c} 56,00868\\ 7,90243\\ 7,90243\\ 7,90243\\ 7,11135\\ 7,11135\\ 7,11135\\ 7,11135\\ 7,11135\\ 7,11135\\ 7,11135\\ 7,12122\\ 7,12122\\ 7,12122\\ 7,12122\\ 7,12222\\ 7,12222\\ 7,12222\\ 7,12322\\ 7,12322\\ 7,1482222\\ 7,148222222222222222222$
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	AVERAGE EARNINGS.	Gross transpor- tat'n earnings per mile, in- cluding mail, express, etc	88         551         73           9, 551         73         73           9, 551         73         73           9, 551         73         73           9, 551         73         73           9, 551         73         73           9, 551         73         73           9, 552         54         73           9, 554         6, 454         96           6, 454         96         73           7, 555         33         73           7, 555         33         73           7, 555         33         73           7, 555         33         73
2	AGE E/	Freight per train mile	#1.558 855 855 855 855 855 855 855 855 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.3770 1.37700 1.37700 1.37700 1.37700 1.37700 1.37700 1.37700 1.37700 1.37700 1.37700 1.37700 1.37700 1.37700 1.37700 1.37700 1.37700 1.377000 1.377000 1.37700000000000000000000000000000000000
9	AVER	Freight per mile	56, 741 84 6, 967 24 6, 967 24 7, 459 41 7, 459 41 7, 459 41 7, 459 41 8, 457 58 8, 457 58 8, 457 58 7, 458 41 7, 201 57 7, 20
20		Passenger per train mile	\$0<723
4		Passenger per mile,	81, 560         2, 163         68           2, 163         68         2, 163         68           1, 770         1, 770         372         11           1, 718         10         11         11         12           1, 718         10         11         12         12         12           1, 718         10         11         12         13         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14
e	Tax	es	21, 212, 222, 232, 232, 232, 232, 232, 2
C1	atii	centage of oper ng expenses to nings	22 22 22 22 22 22 22 22 22 22 22 22 22
	Ope	rating expenses	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c}$
		NAME OF COMPANY.	1       Atchison, Topeka & Santa Fe.         5       Batthnore & Oho.         5       Betthnore & Oho.         6       Chicago & Alton.         10       Chicago & Alton.         11       Chicago & Alton.         12       Chicago & Alton.         13       Chicago & Alton.         14       Chicago & Alton.         15       Chicago & Cahunet Terminal (3)         16       Chicago & Chunet Trunk.         17       Chicago & Chand Trunk.         18       Chicago & Northwestern         19       Chicago & Northwestern         20       Chicago & Northwestern         21       Chicago & Northwestern         22       Chicago & Northwestern         23       Chicago & Shuha Rich & Northern         24       Galesburg & Kio         25       Chicago & Shuha & Paula         26       Chicago & Shuha & Paula         27       Chicago & Shuha & Paula         28       Chicago & Shuha & Paula         29       Chicago & Shuha & Paula         20       Chicago & Shuha & Paula         21       Chicago & Shuha & Paula         22       Chicago & Shuha & Paula         23 <td< td=""></td<>

889258988888888888888888888888888888888	
1         1         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23         23 <td>\$2,237 41</td>	\$2,237 41
0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001 <th< td=""><td>\$3,825 37</td></th<>	\$3,825 37
2,546,77 7,1889,75 7,1889,75 7,1889,75 7,1889,75 7,1889,75 7,1889,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,189,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,75 7,199,	\$6,062.78
14 (11 (2000)) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (	\$1.418
0.119         0.819         0.82           4.410         4.410         4.410           4.410         4.410         4.410           4.410         4.410         4.61           4.410         4.61         4.61           4.61         4.61         4.61           4.61         4.61         4.61           4.61         4.61         4.61           4.61         4.61         4.61           4.61         4.61         4.61           5.62         5.62         5.62           5.82         5.81         7.62           5.82         5.81         7.62           5.82         5.81         7.62           5.82         5.62         5.62           6.82         5.82         5.82           6.82         5.82         5.82           5.82         5.82         5.82           6.82         5.82         5.82           6.82         5.82         5.82           6.82         5.82         5.82           6.82         5.82         5.82           6.83         5.82         5.82           6.83         5.82         5.82	\$4,196 85
1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	.765
275 287 289 287 287 287 287 287 287 287 287 287 287	\$1,367 31
5,000         5,000         6           5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000         5,5,000	\$3,020,496 96
888888588658588588588585858585858585858	63.09
6,461 51 5,413 575 35 8,722 71 110,051 75 20,011 75 20,011 75 20,011 75 20,011 75 20,011 75 20,011 75 20,011 75 20,115 10 20,217 10 20,2	\$40,059,891 30
<ul> <li>Grand Tower &amp; Carbondale</li> <li>Grand Tower &amp; Carbondale</li> <li>Horand Cover &amp; Cape Girardeau</li> <li>Hinois Southern</li> <li>Hollanangolis, Decaute &amp; Western</li> <li>Lake Shore &amp; Michigan Southern</li> <li>Louisville, by an Na</li> <li>Housville, by an Na</li> <li>Housville, by an Na</li> <li>Michigan tentral</li> <li>Michigan tentral</li> <li>Michigan tentral</li> <li>Souto K Disespipi.</li> <li>Mono.</li> <li>Mer Vork, Chicago &amp; St. Louis, Consol.</li> <li>Rensylvania Co. (Op. Fitts, Fr. W. &amp; Chi St. Douis, Alton &amp; Springfield</li> <li>Pennsylvania Co. (Op. S. Chie, &amp; Southern)</li> <li>Pennsylvania Co. (Op. S. Chie, W. Southern)</li> <li>Pennsylvania Co. (Dp. S. Chie, W. Southern)</li> &lt;</ul>	Totals

(1) Paid by lessor company. (2) Estimated by office. (3) Switching road. (4) Transfer company.

TABLE VIII-Passenger and Freight Traffic in Illinois, for year ending June 30, 1890.

1									
12		Estimated cost of carrying one ton one mile, in cents.	525 9595 9595 9595 9509 1500 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 150000 100000 100000000						
11		Average receipts per ton per mile, in cents	284 284 284 285 284 285 285 285 285 285 285 285 285						
10	FFIC.	Average amoun' received for each ton, in dollars and cents	#1.215           1644           1.1453           1.1453           1.1453           1.1453           1.1453           1.1453           1.1453           1.1453           1.1453           1.1453           1.1450           1.1450           1.1450           1.1450           1.1450           1.1450           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.1530           1.15						
6	FREIGHT TRAFFIC.	Average distance haul of one ton, in miles	145 145 145 145 145 145 145 145 145 145						
∞	FREIG	Number of tons carried one mile.	26, 992 348 29, 552, 832 457, 910, 751 457, 910, 751 417, 711, 719 511, 757, 119 511, 757, 119 511, 757, 119 511, 755, 557 20, 451, 118 56, 453, 073 36, 453, 073 37, 473, 073, 073 37, 473, 073, 073, 073, 073, 073, 073, 073, 0						
2		Number of tons of freight earried earning revonue.	1, 532, 315 1, 552, 335 3, 455, 382 1, 552, 383 1, 552, 553 1, 55						
9		Estimated cost of carrying each pas- senger one mile, in cents	$\begin{array}{c} 3.323\\ 1.565\\ 1.566\\ 1.566\\ 1.566\\ 1.566\\ 1.668\\ 2.083\\ 2.083\\ 2.297\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 2.083\\ 2.233\\ 1.549\\ 1.549\\ 1.549\\ 2.233\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.549\\ 1.$						
ŝ		Average receipts per passenger per mile, in cents	222 222 222 222 222 222 222 222						
4	PASSENGER TRAFFIC	Average amount received from each passenger, in dol- lars and cents	*1.5% *2% *2% *2% *2% *2% *2% *2% *2% *2% *2						
3		PASSENGER ]	PASSENGER 7	PASSENGER 7	PASSENGER	PASSENGER	PASSENGER	Average distance carried, in miles	66.65         52.80         66.65           114.66         52.80         66.65           114.66         114.80         66.65           114.66         114.80         66.65           114.65         114.80         66.65           114.65         114.80         66.65           114.65         114.80         66.65           114.65         114.80         66.65           114.65         114.80         66.65           114.65         114.80         66.65           114.65         114.65         114.65           114.65         114.65         114.65           114.65         114.65         114.65           114.65         114.65         114.65           114.65         114.65         114.65           114.65         114.65         114.65           114.65         114.65         114.65           114.65         114.65         114.65           114.65         114.65         114.65           114.65         114.65         114.65           114.65         114.65         114.65           114.65         114.65         114.65           114.65         114.65
63								PASSE	Number of passen- gers carried one mile
1		Number of passen- gers carried earn- ing revenue	250, 254, 259, 254, 259, 254, 259, 259, 259, 259, 259, 259, 259, 259						
		NAME OF COMPANY.	Atchison, Topeka & Santa Fe         5 Baltimore & Ohio         9 Chicago & Alton         9 Chicago & Altantic         11 Chicago & Atlantic         12 Chicago & Atlantic         13 Chicago & Atlantic         14 Chicago & Fastern Illinois         17 Chicago & Fastern Illinois         18 Chicago & Fastern Illinois         19 Chicago & Fastern Illinois         11 Chicago & Northwestern         12 Chicago & Northwestern         13 Chicago & Northwestern         14 Chicago & Northwestern         15 Chicago & Burlington & Quinoy.         16 Chicago & Burlington & Quinoy.         17 Chicago Burlington & Southern         18 Chicago St. Joulis & Pittsburgh         18 Chicago St. Paul & Ransas Uity         19 Chicago St. Paul & Ransas Uity         10 Chicago St. Paul & Kansas Uity         10 Chicago K St. Paul & Kansas Uity						

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222	22	% %	388	\$ <u>6</u>	5 č	8	88 88	183	183	885	199	102	110	E	212	115	116	-
.330 .841 .600	578	518.	306	.686	ere.	.439	2.086	.675	.661	.527	2.735	564	.390	1.119	122	1.378	628.	.517
.650 .726 .863	1.246	128	122	1.110	790.	.683	2.818	1.173	1.577	1.124	1.887	840	5:30	1.451	21.1	2.514	.950	.832
$1.122 \\ 0.75 \\ .700 \\ .700 \\ .$	.832	081.	1.663	1.030	0.14	1.039	81.	1.282	006	663 19	197	150	.930	506.	1.171	.552	.523	\$0.853
$\frac{172.60}{10.40}$ $81.20$	66.77 19.86					152.00	5.7	109.38	57.08	55.50 55.50	14.(0)	87.76		68.43	223.07	21.96	55.11	102.45
$\begin{array}{c} 52,180,072\\ 28,336,508\\ 66,764,182 \end{array}$	9,784,716 6,928,648	275 855	Ξř,	027	9/3	38, 196, 013	414,376	33,876,417	33,377,530	82, 437, 493 1 800 084	462,392	138, 453, 010		40, 195, 316	70, 749, 184	1.599.450	42, 973, 653	4, 271, 377, 794
$\begin{array}{c} 302,210\\ 2,717,918\\ 822,219\end{array}$	146,541	1,863,354	111,045	1, 197, 369	100, 117	250, 927	95, 239	309, 707	584, 750	01, 485, 948 1, 485, 948	33, 028	1.577.652	261,692	587,350	317, 150	72.834	199,677	48, 364, 653
$\begin{array}{c} 2.286 \\ 1.358 \\ 1.450 \end{array}$	2.114	1.913	1.657	2.004	2.029	1.541	1.457	2.248	2.049	2.429		100 6	2.800	2.108	1.637	1.087	1.292	1.900
2.480 1.741 2.530	2.619	2.046	1.783	2.327	2.003	2.184	1.669	2.625	2.570	2.309		2.3.03	2.500	2.464	2.344	2.851	1.823	2.066
.651 .130 1.029	.938	.418	707	1.170	+co.	-005	020.	.636	619.			1.210	019	.550	429	435	.770	\$0.529
$26.24 \\ 7.50 \\ 41.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 \\ 1.20 $	24.46 19.86				42.00	27.78	4.24	21.23	24.11	27.00 00		52 00	25.00	22.33	18.31	15.24	41.74	25.12
$\begin{array}{c} 5,413,322\\ 7,036,992\\ 11,860,195 \end{array}$	2,051,549 968,954				4, 949, 504	3, 989, 894	943,908	5,604,418	4, 310, 872	8, 808, 128		18 838 798	3, 122, 500	9,660,059	2,245,776	602.5571	8, 623, 139	554,960,062
206, 269 938, 137 287, 595	83,849	348,830	19,287	578, 569	117,846 3 350	143,578	222, 530	231,230	180,022	321,523 40,930	'nt	1,342,355						24, 910, 820
71]Lake Erie & Western	k Chic	78 Michigan Central	88 New York, Chicago & St. Louis	85 Ohio & Mis-issippi	86 Ohio, Indiana & Western	88 Penn. Co. (Op. P. Ft. W. & C.)		93 Peoria, Decatur & Evansville.	94 Quincy, Omana & Nansas Ouy	96 St. Louis, Alton & Springneld 98 St. Louis, Alton & Terre Haute		107 Terminal Railroad Asso. of St. Louis (5 108 Terme Haute & Indiananolis	110 Terre Hante & Peoria	111 Toledo, Peoria & Western	112 Toledo, St. Louis & Kansas City	115 Wabash Chester & Western		Totals

(4) Includes 133,635 tons of freight trans-(3) Estimated by office. (1) Estimated by office on mileage basis. (2) Estimated by company. ferred in cars, and not included in detail tonnage. (5) Transfer Co. TABLE IN.—Classified Freight Traffic in Illinois in Tons, for year ending June 30, 1890.

1				2/25/5328288829998685868666666666668668668686868686868
	13		Hides and leather	$\begin{array}{c} 125, 6641\\ 12, 7663\\ 12, 7663\\ 12, 7663\\ 13, 762\\ 111, 622\\ 3663\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\ 1488\\$
	15	s.	Wooł	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
• • • •	11	ANIMA	Poultry, game and fish	
pant (an anna	10	PRODUCTS OF ANIMALS.	Other pack- ing house products	33,460 34,460 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,775 37,7757 37,7757 37,7757 37,775775 37,775775 37,77577757777777777
	6	PRODUC	Dressed meats	13, 606 15, 080 16, 080 11, 648 11, 648 11, 648 11, 648 13, 628 13, 616 13, 616 14, 616\\14, 616\\14, 616\\14, 616\\14, 616\\14, 616\\14, 616\\14, 616\\14, 616\\14, 616\\14, 61
Quinto inch	∞		Live stock	20, 20, 20, 20, 20, 20, 20, 20, 20, 20,
- 1	7		Fruit and vegetables	5,056 5,056 5,056 5,056 5,056 12,125 11,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,256 2,107 1,257 1,256 5,77 2,1107 1,257 1,257 1,256 5,757 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,257 1,25
	6	ßE,	Cotton	12, 249 2, 503 6, 473 6, 25 6, 25 92 92 92 170 326 93 1, 993 8, 594 8, 594 8, 594 8, 594 8, 594 8, 594 8, 594 8, 594 8, 594 8, 594 92 1, 599 8, 594 92 8, 995 92 92 8, 995 92 92 8, 594 92 8, 92 92 8, 92 92 92 8, 92 92 92 8, 934 92 92 92 92 92 92 92 92 92 92 92 92 92
	5	ULTUI	Tobacco	24 26 27 26 27 27 26 27 27 26 27 27 27 27 27 27 27 27 27 27
	4	AGRIC	Hay	3,994 3,994 1,206 1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,1,206 1,
	ŝ	PRODUCTS OF AGRICULTURE.	Other mill products	6, 355 31, 117 31,
	c1	Produ	Flour	912 200 200 200 200 200 200 200 200 200 2
	1		Grain	85 85 85 85 85 85 85 85 85 85 85 85 85 8
THE COMMENT OF AUTON AND A AND			NAME OF COMPANY.	1       Atchison, Topeka & Santa Fe.         5       Baltimore & Ohlo.         9       Chenga & Alton.         9       Chenga & Alton.         9       Chenga & Alton.         11       Chicago & Alton.         12       Chicago & Alton.         12       Chicago & Carad Trunk.         13       Chicago & Carad Trunk.         14       Chicago & Carad Trunk.         15       Chicago & Chrunk Thisburgh.         16       Chicago & St. Paul & Kansas City.         17       Chicago & St. Paul & Kansas City.         18       Chicago & St. Paul & Kansas City.         19       Chicago & St. Paul & Kansas City.         10       Feoria & Eastorn.         11       Fulton County Narrow Gauge.         12       Feoria & Lawa & Gard and City.         13       Chinana & Illinois Southern.         14       Chinana & Illinois Southern.         15       Faul Or Ownty Narrow Gauge.         16       Faul Or Ownty Narrow Gauge.         16       Indiana & Illinois Southern.

<b>8</b> 838	28888	18228	8851 8851	1108			
1,373 1,373 82	C-1	482 179 73	2,315	10,873	1,549	1,319 119.627	
1,065 1,065	157	328 21	1,159 50	618	1,206 1,706	207 46. 035	
1,501	338	1,518	1,000	808 584	- :	141_500	
2,260 2,987 163	1, 699 141	281	11,72) 3,445	10,670	4,211 3,917 23,587	460	
2091 2091 330	÷ ÷	232	: :	16,700	363 39,455	1,028	
7, 170 13, 529 40, 301 5, 284	5,945	11,314 40 20,450 8,301	59,007 4,156	46,892 14,167	45,8%9 9,321 129,139	21,827	
$   \begin{array}{c}     33,915 \\     1,654 \\     19,139 \\     528 \\   \end{array} $	2,300	8,962 195 7,141	4,747	29, 088 577	3,149 2,104 2,104 2,104 2,04 2,04 2,04 2,04 2,04 2,04 2,04 2,	61,958	
18,692 11,943 11,558 11,899	0+1	3,105	13,108	63,004	$2,928 \\ 9,968$	239 166	
2, 22 198		2, <del>1</del> 85 133 13	2,989	17,	3,903 3,903	77.442	
15,040 2,673	1,106	40,895 50 9,303	10,671 2,139	3,053 1,936	14, 114	¢7	
$ \begin{array}{c} 3,512\\ 13,321\\ 3,383\\ \end{array} $	2,483	629 11 670	12,811	12,382	7,827 10,081 25,082	462.845	
$ \begin{array}{c} 4,130\\ 33,395\\ 1,849 \end{array} $	4,115 866 88	4,126	76, 124 869 3	24,688 1,893	5, 606 5, 606 8, 606	10,532	
58, 148 24, 211 275, 246 59, 702	10, 080 10, 080 107	80, 577 75 223, 688	80, 169 12, 821 12, 821	101,696 139,130	207, 800 91, 285 601, 163 7, 418	10,	
80 Mobile & Ohio	ittsburgh F outh Chica	32 Fooria, Decature & Fvansville. 94 Quincy, Omaha & Kansas City. 95 Biock Island & Pooria.	108 St. Louis, Alton & Terre Haute. 108 St. Louis, Alton & Terre Haute. 106 St. Louis & Chicago	k Pe	111 Toledo, Peoria & Western 112 Toledo, St. Louis & Kansas City 114 Wabash Chastor & Western.	116 Wisconsin Central Lines. Totals.	

(1) Includes all products of Agriculture.

(2) Includes all products of Animals.

Table IX.-Classified Freight Traffic in Illinois, 1890.-Continued.

26		Tile	13, 211 1, 125 1, 125 1, 125 22, 675 23, 675 1, 125 1,				
25		Household goods and furniture	$\begin{array}{c} 5,456\\ 1,020\\ 1,020\\ 2,410\\ 2,410\\ 2,410\\ 2,410\\ 2,410\\ 2,410\\ 2,410\\ 2,410\\ 2,410\\ 2,410\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\ 1,230\\$				
24		Wines, liquors, beers, etc	6.27734 6.3011 6.3011 5.774 6.302 15.532 15.532 15.552 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.636 12.6366 12.6366 12.6366 12.6366 12.6366 12.6366 12.6366 12.				
63		Wagons, car- riages, tools, etc	$\begin{array}{c} \begin{array}{c} 2, 5, 5, 2, 2, 2, 2, 3, 5, 2, 2, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,$				
22		Agricultural implements	2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513 2,513				
21	RES.	Cement, brick and lime	17,017 17,017 17,017 2,080 2,080 37,929 36,15,041 3,545 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,558 37,559 37,558 37,558 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37,559 37				
20	MANUFACTURES.	Bar and sheet metal	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $				
19	MAN	Machinery, etc	23 217 106, 702 17, 205 17, 205 17, 205 89, 919 584 18, 707 1, 707 1, 707 1, 707 1, 707 1, 707 1, 707 1, 707 1, 707 584 99, 589 99, 589 99, 589 99, 589 99, 589 10, 662 2, 120 5, 1463 11, 14631				
18		Iron and steel rails	23, 387 16, 047 16, 047 15, 958 20, 406 155, 958 9, 165 203 155, 958 9, 165 203 1, 059 46, 839 46, 83946, 839 46, 839 46, 839 46, 839 46, 839 46, 839 46, 83946, 839 46, 839 46, 839 46, 83947, 839 46, 839 46, 839 46, 839 46, 83947, 839 46, 839 46, 839 46, 839 46, 83947, 839 46, 839 46, 839 46, 83947, 839 46, 839 46, 839 46, 83947, 839 46, 839				
17		Iron, pig and bloom	11, 978 24, 898 24, 898 10, 164 11, 1084 11, 1084 11, 1084 11, 1084 11, 1084 11, 1084 11, 1088 11, 10888 11, 10888 11, 10888 11, 10888 11,				
16			Naval stores	5, 230 1,979 154 974 22 977 357 357 357 357 357 357			
15							Sugar
14		0ils	19, 389 10, 089 11, 719 11, 71				
		NAME OF COMPANY.	1       Atohison, Topeka & Santa Fe         5       Battimore & Ohio         8       Centralia, & Chester         9       Chicago & Alton.         14       Chicago & Alton.         15       Chicago & Alton.         16       Chicago & Alton.         17       Chicago & Fasad Trunk.         18       Contraga & Conthyrestern.         19       Chicago & Conthyrestern.         20       Chicago & Conthyrestern.         21       Chicago & Conthyrestern.         22       Chicago & St. Paul & Fanil         23       Chicago & St. Paul & Fanil         24       Chicago & St. Paul & Fanisas City.         25       Chicago, St. Paul & Fanisas City.         26       Fanakakee & Senteea.         27       Fanakakee & Senteea.         28       Fanakakee & Senteea.         29       Fanakakee & Senteea.         20       Fana Oromty Narrow Gange.         21       Fana & Contago & St. Louis.         22       Kanakakee & Senteea.         23       Fanod Tower & Carbo diracitau.         24       Fana Oromtage.         25       Fana Oromtage.         26       Fanin Oromty Narrow Gange. <t< td=""></t<>				

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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	\$\$ \$\$ \$\$	888	883	183	883	29 <u>6</u>	011	112 114	115		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				733			2.369 5.824		402	114,637	
t         15, 453         15, 453         15, 453         15, 453         15, 453         15, 453         15, 453         16, 99, 14, 199         2, 611         37, 935         2, 911         37, 935         36, 135         36, 135         36, 135         36, 135         36, 135         36, 135         36, 135         36, 135         36, 135         36, 135         36, 135         36, 135         36, 135         36, 135         36, 135         36, 135         36, 135         36, 141         37, 103         36, 135         36, 141         36, 135         36, 135         36, 141         36, 135         36, 135         36, 141         36, 135         36, 141         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         36, 161         <	2, 023 396	188	5116 116	1,238	9,700	3.247	1,301	839 6.044	3,304	150,277	
t         15, 45         1, 54         1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 50         1, 1, 30         2, 61         1, 31         30, 55         357         2, 503         350         2, 603         350         357         357         357         357         357         357         357         357         350         357         350         357         350         350         350         350         357         350         350         357         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350         350<	20, 117 827				21,583	12.668	16.342	492 10,143	345 1,654	318, 123	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	39, 987 413	351	552 130	2, 121	11,400	12,116	1,718	370 3,014	2,312	527, 637	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	2,641		288.88	5,942	6, 550	8,968	1,023 6,658	5,007	$^{67}_{2,263}$		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$   \begin{array}{c}     21,062 \\     1,949 \\     33 \\     33   \end{array} $	6,403 26,612		6,671	10,040	39,331	616 888 888	30,535	6, 522 6, 852		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$9,144 \\ 1,965$	$10,328\\8,794$	•	1,805	471	25, 324	3, 290	7.473	21, 250		
Iter         I5, 530 (0, b,	$1,860 \\ 2,064$	5,068 5,891	1,043	1,001	5,050 10,417	22,696	4,942	20,405. 6,263	1,994.	598,866	
t steer 15, 739 esteen 2, 527 0, S. Ft. W & Chi 1, 2, 527 0, S. Chi & Southern, 4, 789 founsville 497 invasa 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	4,541 991	2,730 2,305	318	148	2,000	27,439	5,474 2,087	5, 722 11, 008	55,224	497,748	actures
t steer 15, 739 esteen 2, 527 0, S. Ft. W & Chi 1, 2, 527 0, S. Chi & Southern, 4, 789 founsville 497 invasa 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	15, 452 2, 958	13,667 3,627	3,162	2,848	21,206	38,887	3,246 781	2,647	1.210. 11.756	906, 817	l manuf
t steer 15, 739 esteen 2, 527 0, S. Ft. W & Chi 1, 2, 527 0, S. Chi & Southern, 4, 789 founsville 497 invasa 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		4								28,973	ludes al
transform (2) 2, 27 estern (2) 2, 27 (2) 20, 10, 10, 10, 20, 20, 10, 10, 20, 20, 10, 20, 10, 20, 20, 20, 20, 20, 20, 20, 20, 20, 2	293	1,560	75 50	369	3,396	7, 104	8,690	11,412.		214,930	(3) Inc
testern ob. S. P. Ft. W. & Ob. S. Chi, & S. Jounsville Fransville Farasville Mansas City of Mansas City Mestern Vestern Massas City Stansas City Mestern Lines Lines	15,730 2,527	4,784	261 201	6,312	FF	11, 392	735	1,536 18,798	14.783	722, 110	erap.
<ul> <li>Si Ohio, &amp; Mississippi</li> <li>Si Pawney</li> <li>Si Pawney&lt;</li></ul>		7. & Chi.) & Southern).					· · · · · · · · · · · · · · · · · · ·				(2) Iron so
<ul> <li>Si Ohio &amp; Missi, Si Ohio &amp; Missi, Si Pawnee</li> <li>Fawnee</li></ul>	ssippi. t & Western	Co. (Op. P., Ft. V Co. (Op. So. Chi.	ur & Evansville . 1a & Kansas City	t Peuria. on & Springfield.	on & Terre Haute hicago	eoria V Indianapolis	a & Western	ouis & hansas Cit	ster & western ntral Lines		
	o & Missis o, Indiana	nnsylvania nnsylvania	oria, Decat incv. Omah	ck Ísland Å Louis, Alte	Louis, Alto Louis & C	Louis & P	rre Haute . ledo, Peori	ledo, st. Lo bash	abash, Ches sconsin Ce	Totals	neludes iroı

Table IX.—Classified Freight Traffic in Illinois—Continued.

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48	5	Fotal	tonnage	1, 633, 3310 1, 5, 53, 3315 1, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,
36	3	Misce othe ities	llaneous, commod-	116, 558 1.08, 756 1.08, 756 1.18, 737 1.18, 737 1.18, 88, 238 1.18, 98, 44 1.18, 98, 45 1.18, 98, 45 1.19, 45
35	3	lce		76, 420 11, 629 11, 629 12,
55	5 1	Mercl	nandise	117,657 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758 7,758
83	3		acts of for-	88, 2010 88, 2010 89, 2010 80, 20
30	3		Salt	$\begin{array}{c} 3,199\\ 3,199\\ 5,947\\ 5,344\\ 5,344\\ 5,344\\ 1,267\\ 5,344\\ 1,267\\ 5,344\\ 1,267\\ 5,344\\ 1,266\\ 6,253\\ 2,2198\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2,290\\ 2$
3	5	ES.	Stone, sand, and other like articles	131, 644 96, 050 7, 789 7, 789 7, 789 7, 789 9, 170 19, 170 10, 137 10, 138 11, 138 11
30	2.	OF MIN	Ores	$\begin{array}{c} 13,766\\ 155,099\\ 7,718\\ 7,718\\ 7,718\\ 7,718\\ 7,719\\ 7,7417\\ 1,822\\ 1,938\\ 1,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938\\ 2,938$
06	Ĵ	PRODUCTS OF MINES.	Coke	25, 798 131, 983 151, 985 151, 98
86	3	PR	Bitumin- ous coat.	300, 112 300, 112 300, 112 300, 112 300, 112 300, 172 300, 172 300
40	ĩ		Anthra- cite coal.	$\begin{array}{c} 3,218\\ 3,218\\ 7,521\\ 7,1218\\ 7,1218\\ 7,14\\ 7,1462\\ 1193,771\\ 1193,771\\ 1193,771\\ 200\\ 365,520\\ 366,520\\ 366,520\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6,330\\ 6$
		NAME OF COMPANY.		Atchison, Topeka & Santa Fe.         Baltimore & Ohio         Baltimore & Maio         Bolicago & Atlanto.         Chicago & Corand Trunk.         Chicago & Corand Trunk.         Chicago & Noin Navestern.         Chicago & Burlington & Nonthern         Chicago, Rock Island & Paolife.         Schicago, St. Louis & Pittsburgh.         Schicago, St. Louis & St. Louis.         Beoria & Eastern.         Schicago & Southern.         Schicago & Nashvilla.         Schicago & Nashvilla.         Schicago & St. Louis Southern.         Schicago & Mashvilla.         Schicago & St. Louis, Consolidatid         Schicago & Nowestern.         Schore

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71, 71, 71, 71, 71, 71, 514, 714, 714, 714, 714, 714, 714, 714, 7	642, 737
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<ul> <li>T. Louisville, New Albany &amp; Chicago</li> <li>Michizan Contral</li> <li>Mobile &amp; Ohio</li> <li>Ney York, Chicago &amp; St. Louis</li> <li>Ney Nork, Chicago &amp; St. Louis</li> <li>Ohio &amp; Misissispiti</li> <li>E Pawnee</li> <li>Pawnee</li> <li>Peoria &amp; Pekin Union</li> <li>Peoria &amp; Fokin Union</li> <li>Peoria, Deentur &amp; Evansville</li> <li>Peoria, St. Russas City</li> <li>St. Louis, Alton &amp; Springfield.</li> <li>St. Louis, Alton &amp; Springfield.</li> <li>St. Louis, Alton &amp; Springfield.</li> <li>St. Louis &amp; Peoria.</li> <li>St. Louis &amp; Peoria.</li> <li>St. Louis &amp; Peoria.</li> <li>St. Louis &amp; Romanolis</li> <li>St. Louis &amp; Romanolis</li> <li>St. Louis &amp; Romanolis</li> <li>Peoria.</li> <li>St. Louis &amp; Romanolis</li> <li>St. Louis &amp; Romanolis</li> <li>Toucho, St. Louis &amp; Kansas City</li> <li>Touled, St. Louis &amp; Kansas City</li> <li>St. Louis &amp; Chicago.</li> <li>St. Louis &amp; Romanolis</li> <li>St. Louis &amp; Romanolis</li> <li>St. Louis &amp; Portia.</li> <li>St. Louis &amp; Micasas City</li> <li>St. Louis &amp; Chicago.</li> <li>St. Louis &amp; Mestern.</li> <li>St. Louis &amp; Portia.</li> <li>St. Louis &amp; Chicago.</li> <li>St. Louis &amp; Micasas City</li> <li>St. Louis &amp; Mestern.</li> <li>St. Louis &amp; Strons Louis &amp; Kansas City</li> <li>St. Louis &amp; Chicago.</li> <li>St. Louis &amp; Chicago.</li> <li>St. Louis &amp; Chicago.</li> <li>St. Louis &amp; Chicago.</li> <li>St. Louis &amp; Portia.</li> <li>St. Louis &amp; Chicago.</li> <li>St. Louis &amp; Chicago.</li> <li>St. Louis &amp; Chicago.</li> <li>St. Louis &amp; Strons and the strong and the strong and the strons and the strong and the strong and the strong and the</li></ul>	Totals
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Estimated by company.
 Estimated by office.
 Includes all products of mines.

TABLE X.-Number of Employée and Salaries, for year ending June 30, 1890-Whole Line and in Illinois.

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 (6) Indianapolis, Decatur & Western (7) Indiana, Illinois & Iowa. (8) Iowa Central (8) Iowa Central (9) I. Lake Brie & Western (1) Lake Brie & Michigan Southern. (1) Lake Brie & Mashville. (2) Lake Shore & Michigan Southern. (3) I. Lake Brie & Nashville. (4) Lake Brie & Nashville. (5) Lake Shore & Michigan Southern. (6) Lake Shore & Michigan Southern. (7) Louisville. For Newsville & Sti. Louisoil. (7) Louisville. Sono Mohigan Contral (8) Mohig & Oho. (9) Mohig & Oho. (9) Nork, Chicago & St. Louis (9) Pawnee. (9) Mississisppi. (9) Pawnee. (9) On So. Chi & Southern. 	action of St. will a second of the second of the second of St. the

(I) Does not include contractor's employes, to whom monthly allowance is made to cover cost of maintenance.

Table X—Continued.

		4	
21	IN ILLINOIS.	Total yearly compensation	91, 590, 076 92, 530, 076 92, 520, 076 93, 523, 145 93, 523, 234, 530 93, 523, 234, 530 93, 524, 530 94, 532, 546 94, 524, 532 95, 524, 530 94, 524, 532 95, 524 95, 526, 530 96, 530 91, 527, 532 95, 530 93, 550, 530 96, 553 93, 550, 550 90
20	IN IL	Grand total	1.101 101 101 101 101 101 101 101 101 10
19	E LINE.	Total yearly compensation	9, 072 556 0 1,178 538 54 2,838 54 58 53 2,838 54 56 58 56 1,075 56 58 51 56
18	Шноге	Grand total	3,466 1,917 1,917 1,917 1,917 1,917 1,917 1,917 1,917 1,916 1,916 1,916 1,916 1,916 1,916 1,916 1,916 1,916 1,916 1,916 1,917
17	Aliar	other employès id laborers	210 411 67 1,303 1,303 1,303 1,303 3,442 3,442 3,365 3,442 3,365 1,55 1
16	Em	ployès—account ating equipment	· · · · · · · · · · · · · · · · · · ·
15	Tele and	graph operators 1 dispatchers	211 22 22 22 22 22 22 22 22 22 22 22 22
14	Swi	tchmen, flagmen 1 watchmen	121 122 123 123 123 123 123 123 123 123
		NAME OF COMPANY.	1 Atchison. Topeka & Santa Fe. 5 Baltimore & Ohio. 8 Concare & Alon. 8 Concare & Alon. 9 Chicago & Alon. 11 Chicago & Alon. 12 Chicago & Alon. 13 Chicago & Alon. 14 Chicago & Alon. 15 Chicago & Alon. 16 Chicago & Alon. 17 Chicago & Alon. 18 Chicago & Alon. 19 Chicago & Alon. 11 Chicago & Alon. 12 Chicago & Cand Trunk. 13 Chicago & Bordhrestern. 14 Chicago & Northwestern. 15 Chicago & Burlington & Conthern. 25 Chicago & Miray. 26 Chicago & St. Paul. 28 Chicago, St. Louis & Chicago & St. Louis. 29 Chicago, St. Paul. 20 Chicago, St. Paul. 21 Chicago, St. Paul. 22 Chicago, St. Paul. 23 Chicago, St. Paul. 24 Chicago, St. Paul. 25

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91.98 84 91.98 84 91.98 84 91.98 84 91.98 85 91.98 85 91.98 85 91.98 85 91.98 85 91.98 85 91.08 95 91.08 95 91.	128,309 17 \$33,991,986 16
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Includes six months' salaries paid by Peoria & Eastern Ry. Co., and six months' salaries paid by Ohio, Indiana & Western Ily. Co. Does not include contractor's employes, to whom monthly allowance is made to cover cost of maintenance. E @ @ E

Salaries for eight months. Salaries for six months.

TABLE XI.-Average Daily Compensation of Employés, for year ending June 30, 1890.

1		
16	All other employes and laborers	6683333 6683333 6683333 6683333 668333 668333 668333 668333 668333 668333 668333 668333 668333 668333 66833 66933
15	Employes—Account floating equipment	2 64
14	Telegraph operators and dispatchers	883:5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
13	Switchmen, flagmen and watchmen	33355 P325 22212388 88825 5 535
12	Other trackmen	818894812892558655518 98855599955 818894812892558655518 98855599955
11	Section foremen	52777732828338: 65334538288388
10	Other shopmen	282 287 28 28 28 28 28 28 28 28 28 28 28 28 28
6	Carpenters	00000-00-00-00-00-00-00-00-00-00-00-00-
	Machinists	2883 8888 E8822862287 24 9 88 888888 277 FOR FORDERING ON OR OLDER
2	Other trainmen	
9	Conductors	8239895655828398665582 3282882388588 823982585955582 32828882388588
r0	Firemen	201 20000000000000000000000000000000000
4	Enginemen	2499700000000000000000000000000000000000
60	Other station men	
63	Station agents	328238757 88233 868327335288328895 329255 88232 8683273352883288328
-	General office clerks	58268283836298 2834883 254283 2826883 282688 58268282882883838 2834883 2836883 283688 5826828288288388 582682838388 582682838 5826828 5826828 5826828 5826828 5826828 5826828 5826828 5826828 5826828 5826828 5826828 5826828 582688 582688 582688 582688 582688 58268 582688 586888 586888 586888 58688 58688 58688 58688 586888 586888 5868888 586888 586888 586888 5868888 5868888 586888 586888 586888 586888 586888 586888 586888 586888 58688888 5868888 5868888
	NAME OF COMPANY.	1 Atchison, Topeka & Santa Fe. 5 Baltimore & Ohio. 7 Beit Railway of Chicago. 7 Centralia & Cohicago. 9 Chicago & Alton. 11 Chicago & Alton. 12 Chicago & Alton. 13 Chicago & Alton. 14 Chicago & Alton. 15 Chicago & Alton. 16 Chicago & Alton. 17 Chicago & Alton. 18 Chicago & Catand Fruk 19 Chicago & Forun Tilinois. 117 Chicago & Forun 118 Chicago & Morther 217 Chicago & Northwesten 218 Chicago & Northwesten 217 Chicago & Northwesten 225 Chicago & Northwesten 235 Chicago Milvantec & St. Paul. 240 Paoria & Pastra 253 Chicago St. Iouis & Patisburgh 264 Chicago St. Jouis & Caronella. 265 Chicago St. Jouis & Patisburgh 265 Chicago St. Jouis & Caronella. 266 Chicago St. Jouis & Caronella. 27
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TABLE XII.—Description of Equipment, Whole Line, for year ending June 30, 1890.

	038585558866449868666666666666666666666666
Fitted with au- tomatic coup- ler	223 232 232 232 232 232 232 232 232 232
Equipped with train brake	885333888888833331777 23 338
Total	**************************************
Others	
Baggage, ex- press and postal cars	0121 1 123 122 28 0 1 1 1 4 4 9 1 5 0 1 1 1 4 9 1 5 1 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sleeping cars .	
Parlor cars	
Dining cars	22 23 23 23 23
Emigrant cars.	
Combination pass.cars.:	
Second class pass.cars	
First-class pass.cars	(1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
Equipped with train brake	84.8% 33 855553 98 85 9 9 9 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1
Total	251 252 252 252 252 252 252 252 252 252
Switching	8 1474 0 9 9 8 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Freight	10111111111111111111111111111111111111
Passenger	2011 1 1 1 2 2 3 2 3 2 4 1 2 2 3 2 3 2 3 2 4 1 2 2 3 2 3 2 3 2 4 1 2 2 3 2 3 2 3 2 4 1 2 2 3 2 3 2 3 2 4 1 2 3 2 3 2 3 2 3 2 4 1 2 3 2 3 2 3 2 3 2 4 1 2 3 2 3 2 3 2 3 2 4 1 2 3 2 3 2 3 2 3 2 4 1 2 3 2 3 2 3 2 3 2 4 1 2 3 2 3 2 3 2 3 2 4 1 2 3 2 3 2 3 2 3 2 4 1 2 3 2 3 2 3 2 3 2 4 1 2 3 2 3 2 3 2 3 2 4 1 2 3 2 3 2 3 2 3 2 4 1 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2
NAME OF COMPANY.	Atebison, Topeka & Santa Fe Beit Railway of Chicago Centrala & Chester. Chicago & Alanti Chicago & Alanti Central Chicago & Bastern Illinois. Chicago & Bastern Illinois. Chicago & Fortand Trunk. Chicago & Northwesten. Chicago Peoria & St. Louis Chicago. Peoria & St. Louis Chicago. Pooria & St. Louis Chicago. Pooria & St. Louis Chicago. St. Louis & Pasific Chicago. St. Louis & Ransas City. Chicago. St. Louis & Kansas City. Chicago. St. Louis & Kansas City. Chicago. St. Louis & Carondelet. Chicago. St. Louis & Carondelet. Chicago & St. Louis & Carondelet. Deviand. Cincinnati, Chicago & St.L. Peoria & Carondelet. Dest St. Louis Connecting Fultino County Narrow Gauge. Childana & Illinois Southern.
	tomatic coup- ler Equipped with train brake Total Others Baggage, ex- press and postal cars Sleeping cars Parlor cars Emigrant cars. Combin at i on pass. cars First-class pass. cars Equipped with train brake Total Freight Passenger

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^a Contral. ^a Contral. ^b Shore & Western ^c Shore & Washville. ^c Shore & Nashville. ^c Shore & Mashville. ^c Shore & Mashville. ^c Nile. New Albany. ^c Niles. ^c Shore & Mississippi & Shore ^c Colo, Cop. Pitts ^c Mississippi & Sprim. ^c Colo, Cop. Pitts ^c Alban & Kansa ^c Conta & Kansa ^c Coloris. Albon & Forta ^c Shore A seconta ^c Could A sprim. ^c Baute & Porta ^c Mississipi & Vorta ^c Could A sprim. ^c Baute & Porta ^c Motad A seconta ^c Baute & Porta ^c Motad A seconta.	1 :
 I. Louisville, Swashville, S. L. Con T. Lake Shore & Western. T. Lake Shore & Mestern. T. Louisville, Svassville & S. L., Con K. Louisville, Svassville & S. L., Con S. Michigan Contral. Se Mondolle, New Albany & Chicago. Minkopile, Wolts. Mississippi Se Dono & Mississippi Se Peoria & Petra Dina & Southern Se Peoria & Petra Dina & Southern Se Peoria & Petra Dina & Shuhern Se Peoria & Petra Dina & Spingeria Se Louis, Alton & Spingfield Se Louis & Porta Se Louis & Porta Se Louis & Porta Mestern Haute & Indianapolis. Terninal Rairoad Assoc. of St. Louis. Peoria & Porta Mestern Haute & Routhanolis. Perental Assoc. of St. Louis. Peorea & Porta Mestern Haute & Indianapolis. Peorea & Porta Western Peorea & Porta Mestern Mestern<td>1 : </td>	1 :

Illinois proportion of entire equipment. Includes construction locomotives. Includes equipment east of the Missouri river. Includes feight and switching locomotives. Includes combination cars.

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27 S	Fitted with au- tomatic c'pler	
2 33 3 Service.	Equipped with train brake	
32 's SEJ	Total	2010 2010
29 30 31 31 3 CARS IN COMPANY'S	Others	* ::::::::::::::::::::::::::::::::::::
30 N COM	Caboose cars	2271 2271 2271 2272 2272 2272 2272 2272
29 ISS II	Derrick cars	0
28 CA	Gravel cars	8. IL8
53	Fitted with automatic coupler	11 11 2.309 990 231 3.132
98	Equipped with train brake	474 2.017 2311 2.017 2311 2.017 230
25 CE.	Total	2, 372 364 3, 167 2, 167 3, 930 3, 930 3, 950 3, 950 1, 492 1, 49
24 SERVI	Others	50 51 51 51 51 51 51 51 51 51 51 51 51 51
22 23 23 24 FREIGHT SERVICE	Refrigerator cars	130 1130 1136 1136 1136 1136 1136 1136 1
22 FREI	Tank cars	
0 21 CARS IN	Coal cars	$\begin{array}{c} 1,346\\ 1,346\\ 1,346\\ 1,346\\ 1,346\\ 1,346\\ 1,346\\ 1,346\\ 1,356\\ 1,356\\ 1,356\\ 1,356\\ 1,356\\ 1,366\\ 1,$
20 CAI	Stock cars	36 30 30 30 30 30 30 30 30 30 30 30 30 30
19	Flat cars	165 561 561 700 800 800 800 800 800 800 800 800 800
18	Box cars	825 3644 3644 11,1239 11,1339
NAME OF COMPANY.		Atchison, Topeka & Santa Fe Baltimore & Ohio Baltimore & Ohio Chicago & Atlanti Chicago & Calumet Terminal Chicago & Canad Trunk Chicago & Canad Trunk Chicago & Northwest rn Chicago & Unio Ilver Chicago & Unio Ilver Chicago & Northwest rn Chicago & Unio Ilver Chicago & Statington & Quincy Standard & Chicago Statouis Statouis Statouis Statous

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1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	113, 891
 Kindiana, Illinois & Iowa Corra Central Lake Shore & Mestern Lake Shore & Mestern Lake Shore & Manyile & St. Louis, Consolidated Louisville & Nashville & St. Louis, Consolidated Louisville, Bvansville & St. Louis, Consolidated New Vork, Contral Shore & Mississippi Shore & Mestern Shore & Mestern Shore & Mestern Mabash. Chorts & Western Missonsin Central Lines. 	Totals

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43	wit	d total fitted h automatic ipler		132	22	208 15	2,896	35 35 9 018	03 02 1	1,214	4, 015		· · · · · · · · · · · · · · · · · · ·	269
41	Grand total equipped with train brake		17	19 745 66	<u>2</u> 6	166 38	3,890	93 93 3 1 5 5	1,073	1,529	151		16	567
40	Grand total ears and locomotives owned.		2, 405 361	2000000000000000000000000000000000000	38 8, 217	197 559 936	27, 764	3, 735	21.630	9,269 9,269 9,000	2,814 16,039	2,017 90 90	757	11,667
33	Locomotives and cars leased			9 <u>7</u> 1		2, 107				5,889				
38	Total cars owned		2,388 364	2, 779 2, 779 2, 747	31 8, 126	428 990 990	26,958	3, 679 31, 309	23,854	817 8,745 1,806	2,762		982 982	11,370
37	TO FAST RVICE.	Fitted with automatic coupler									600		· · · · · · · · · · · · · · · · · · ·	
36	CARS CONTRIBUTED TO FAST FREIGHT LINE SERVICE.	Equipped with train brake				· · · · · · · · · · · · · · · · · · ·			150	100			· · · · · · · · · · · · · · · · · · ·	
35	CARS CON FREIGI	Number		316 500			480	· · · · · · · · · · · · · · · · · · ·	834	612	2,216	· · · · · · · · · · · · · · · · · · ·		50
	NAME OF COMPANY.		1 Atchison, Topeka & Santa Fe	way of (& Ches & Alton	13 Chicago & Calumet Terminal. 14 Chicago & Eastern Illinois.	15 Chicago & Western Indiana	20 Chicago & Iowa. 21 Chicago & Northwestern. 22 Chicago & Northern Pacific.	23 Chicago & Ohio River. 24 Chicaro, Burlington & Northern.	25) Chreago, Burling on & Juney 84. Jouis, Rock Island & Chicago 29 Chicago, Milwankee & St. Paul	30 Chicago, Peoria & St. Louis 34 Chicago, Ro k Island & Pacific.	36 Chicago, St. Louis & Fittsburgh	 Peoria & Eastern East St. Louis & Carondelet 	East St. Louis Connecti Elgin, Joliet & Eastern.	bi Futton County Narrow Gauge 33 Grand Tower & Carbondale 55 Illinois Central.

Table XII-Continued.

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3,9	2,879 2,879 371 371 107	1, 837 15 19 19		21 21 20 20 20 20 20	22, 154
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	1, 100 479 1, 165		669 147 201 801 822 822 822 822 822 822 822 822 822 82	232 885 903 003 65 246 3,854	19, 125
	1,659 12,956 12,956 2,745 2,745 2,745		$1, 644 \\ 1, 644 \\ 174 \\ 201 \\ 371 \\ 1.822 \\ 371 \\ 1.822 \\ 1.$	11,003 $11,003$ $11,003$ $12,256$ $12,256$ $12,246$	235,215
661					1,102
500 166	3, 218 1, 422 1, 422			1,855	250
5, 500	:::::		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1,855 1,855	17,510
Indiana. Pulita, Decatur & Western Indiana. Illinois & Iowa. Iowa Central Lake Erie & Mestern Lake Shore & Michigan Southern Lake Shore & Michigan Southern 5, 166 5, 166	Louisville, New Abany & Chicago. Louisville, New Abany & Chicago. Michigan Central Michigan Central N. W York, Chicago & St. Louis Olio & Mississippi	8. Permsylvania Co. (Operatig Pittsbih, Ft. W. & Chil) 88. Pennsylvania Co. (Op. S. Chicago & Southern) 99. Peoria & Pekin Union 91. Peoria M. Peatur & Fvansville 94. Quirov, Omaha & Kanass City 95. Hook Island & Peoria	96 Sř. Louis, Altón & Springfield 198 St. Louis, Altón & Terre Haute 105 St. Louis & Chicago 106 St. Louis & Peoria 107 Terrinal Raihoad Association of St. Louis 108 Terre Haute & Indianapolis	10 Terre Hante & Peoria 111 Toledo, Peoria & Western 112 Toledo, St. Louis & Kansas City 111 Wabash 116 Wabash. Chestor & Western 116 Wisconsin Central Lines	Totals

(1) Illinois proportion of entire equipment.

TABLE XIII.—Rails, Ties, Ballast, Bridges, etc., in Illinois, for year ending June 30, 1890.

				H 01 00 79 12				1283			1588
80	Leng	gth of	road unfenced		3,00		12.00 3.57 18.78			58.50 32.64 82.04	70.50
4	Num	ber o	f stations	19	07 - 07	113 9	30 55 1	n n	20 152 26	115 15 15 15 15 15 15 15 15 15 15 15 15	1885
9	, S		age number per	2,992	3,000	8,000 8,000	2,800 3,000 3,000 3,000	2,610 2,610	2,900 2,800 000	000 000 000 000 000 000 000 000 000 00	2, 640 2, 900 640
ъĢ	TIES.		ber laid during r	35,498	2,400	228, 261 20, 448	75, 600 35, 585 35, 585	15,720 5,962	2,627 196,540	14,8454,155295,216	3, 077 125, 977 81, 096
4		el.	Tons laid during year	981.25	-	4,085,32 46,19	1,013.47	1,133.00	$\begin{array}{c} 217.00 \\ 3,100.22 \end{array}$	6, 229, 50	15.90 4,503.75
တ		Steel.	Number of miles main line	265.27 2.12 .51	5.91 8.00	542.95	27,00 168,72 48,58	21.88 3.90	104.00 567.88	93.57 93.57 601.62	268.55 268.55 283.88(
63	RAILS.	-i	Tons laid during year								
1	-	Iron.	Number of miles —main line	13.03		5.91	11.36		26.40	86.00 245.46	15.27 34.20
		NAME OF COMPANY		1Atehison, Topeka & Santa Fe*2Chicago, Santa Fe & California3Atehison, Topeka & Santa Fe in Chicago4Mississippi River R. R. & Toll Brdg. Co.			00	-	Chicago Chicago Chicago	Chicago & Chicago & Chicago, Bu	Vanesourg and rio. Illinois Valley & Northern S.L. Jouls, Rock Island & Chicago.

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20,000 6,000 6,000 5,022 25,225 25,225 11,20 10,000
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
685-533 1 1 1 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2
$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $
 Steker arvile & St. Louis. Jacker arvile & St. Louis. Litelifield, Carrollton & Western. Litelifield, Carrollton & Western. Litelifield, Carrollton & Western. Litelifield, Carrollton & Western. Chiergo, St. Louis & Pittsburgh. Chiergo, St. Louis & Pittsburgh. Chiergo, St. Paul & Kansas City. Chiergo, St. Paul & Kansas City. Chiergo, St. Louis & Note and A Bastorn. Chiergo, St. Paul & Kansas City. Chiergo, St. Louis & Carondelet. East St. Louis & Southern. Equation. Count & Ransas City & Northern. Equal of the Count & Statern. Count & Nanow Gauge. Fulton Count & Raynow Gauge. Fulton Count & Routhern. Chiergo, Mariana & Western. Chiergo, Mariana & Western. Chiergo, Mariana & Western. Chiergo, Mariana & Western. South Clinaries Afri Into. Kontal and Kingen & Southern. South Clinaries Afri Into. Southern. Formal and Clinary & St. Louis. South Clinary & St. Louis. South Clinary & St. Louis. South Clinary & St. Louis. Southern. Formal Perminal. Southern. <li< td=""></li<>

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Leng	th of	road unfenced	2.7	10.2	14.9 6.0	5212 555	2.981 2.982 2.292	8.0 12.00 1.00	57.41
Num	ber o	f stations		10	248	904 8	<u></u>	10 13 13	41 38 54
Š.			3,000 2,640 2,640	2,610 2,816 2,816	2, 770 2, 770	1414141 800 800 800 800 800 800 800 800 800 80	ດູບຸບຸບ 2008 8	0000 0000 00000 00000 00000 00000 00000 0000	2,640 2,640 2,800
TIE			3,680 122,584 16,261				11,493 19,782 5,149 10,013	5, 168 3, 500 850	76, 178 28, 500 52, 694
	el.	Tons laid during year	$2,780,26 \\ 2,245,00$	1,302,25 72,15	$\frac{252.77}{1,483}$ 00	88.00 111.60	547.00 13.00		677.03 20.00 509.50
ILS.	Ste	Number of miles —main line	270.65	4.43 16.32 10.25	181.12	15.00 14.40 17.20	56.40 53.50 29.74	17.59 51.25 14.00 1.88	$\frac{158.30}{144.74}$
RA	n.	Tons laid during year							
	Iro	Number of miles —main line	104.87		11.80	68.00	50.20		21.64
	NAME OF COMPANY		83 New York, Chicago & St. Louis* 84 Chicago & State Line. 85 Ohio & Mississippi 86 Ohio, Indiana & Western	88 Pennsylvania Co* 2010 Calumet River. 2010 Prittsburgh, FL, Wavne & Chicago.	921 Poulu Churcero de locatura de la contraction	96 Revealed a contract of the	 Delleville & Fidorado. Belleville & Southern Illinois. Chicago, St. Louis & Paducah. 	104 Carbondale & Shawneetown 106 St. Louis & Chicago 106 St. Louis & Poria. 107 Terminal Railro of Ass'n of St. L	108 Terre Haute & Indianapolis*. 109) St. Louis, Vandalia & Terre Haute. 110 Terre Haute & Peoria & Vestern.
		Number o Aver mile see	Number laid during year Tons laid during year Number of miles —main line Tons laid during year Number of miles 	Length of road unfenced Rumber of stations Number of stations Average number per mile. Number laid during year. Tons laid during year. Number of miles -main line Second Se	Length of road unfenced If i i i i i i i i i i i i i i i i i i i	Length of road unfenced. 12 30 33 100 Number of stations 12 12 12 12 12 Number of stations 12 12 12 12 12 Number of stations 12 12 12 12 12 Number laid during year 12 12 12 12 Number of miles 12 13 12 12 12 <td>Length of road unfenced.$12$$30$$33$$30$<td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>Number of stations """"""""""""""""""""""""""""""""""""</td></td>	Length of road unfenced. 12 30 33 30 <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>Number of stations """"""""""""""""""""""""""""""""""""</td>	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Number of stations """"""""""""""""""""""""""""""""""""

Table XIII.—Continued.

Toledo St. Louis & Kansas City. 173, 49 1.502.00 51, 561 2.640 41 8.00 113 237, 50 Toledo St. Louis & Kansas City. 261, 00 2613, 77 218, 419 3.000 187 237, 50 114 8.00 115 327, 50 114 8.00 115 327, 50 114 8.00 115 327, 50 114 8.00 115 327, 50 114 8.00 115 327, 50 115 327, 50 115 327, 60 115 327, 50 11477, 70 327, 60	112	911 111 111	117		
Poledo. St. Louis & Kansas City. Proledo. St. Louis & Kansas City. 2.640 41 Proledo. St. Louis & Kansas City. 0.00 20.00 51.561 2.640 41 Wabsh. 0.00 27.43 1.90.00 21.501 21.900 177 Wabsh. 0.00 27.43 1.90.00 21.200 27.700 177 Wabsh. 0.00 27.43 1.00.00 20.400 177 170 Wabsh. 0.00 27.43 290.400 27.43 20.400 177 Wabsh. 0.00 27.43 290.400 23.000 177 Wabsh. 0.00 27.43 29.00 20.400 167 Wabsh. 0.00 27.43 29.00 23.000 173 Wabsh. 0.00 27.43 29.00 23.000 167 Wasonsin 0.00 27.55.11 3.112.789 20.400 24.50 Totals 0.00 21.55.11 3.112.789 24.50 24.50	8.00	237.50 32.00		1,477.70	
Poledo. St. Louis & Kansas City. T79.49 1.502.00 51.561 2.610 Wabsh. 0.00 257.43 2.610 2.610 2.70 2.70 Wabsh. 0.00 27.43 2.71 2.71 2.71 2.70 2.71 2.70 Wabsh. 0.00 27.43 2.71 2.71 2.71 2.71 2.71 2.71 2.71 2.71 2.70 2.70 2.70 2.70 2.70 2.70 2.70 2.71 2.70 2.70 2.70 2.70 2.70 2.70 2.70 2.71 2.70 2.71 2.70 2.7	41	187	15	2,459	
Poledo, St. Louis & Kansas City. 179, 40 1.502, 00 51,561 Wabash. 69,00 21,561 200 21,561 Wabash. 69,37 27,49 1,502,00 51,561 Wabash. 69,37 27,49 10,200 20,400 Wabash. 69,37 29,300 20,400 20,400 Ohicago & Wisconsin 71,552,10 20,00 20,400 Ontals 11,81.27 8,982,19 74,555,11 3,112,780			23,000		
Toledo. St. Louis & Kansas City. 179.49 1.502.00 Toledo. St. Louis & Kansas City. 50.00 50.00 51.50 51.50 51.50 51.50 21.51 21.50 21.51 21.60 21.51 150.00 Wabash. Chestor & Western 11.83 11.83 11.502 21.43 150.00 21.51 150.00 Wabash. Chestor & Western 11.83 11.81 21.43 290.00 210.00 Onicago & Wisconsin 11.181.27 1,181.27 8.952.19 74.555.11		248,419 10,290	20,460	3,112,789	
Toledo, St. Louis & Kansas City179, 49Dinon Stock Yards & Transit Co.15, 30Wabash15, 30Chicago & Wessern15, 30Chicago & Wisconsin27, 43Chicago & Wisconsin49, 36Totals1, 181, 27Totals3, 932, 19	1.502.00	2,613.77	210.00	74,555.11	
Poledo, St. Louis & Kansas City. Poledo, St. Louis & Kansas City. Wabash. Wabash. Cheter & Western Chicago & Wisconsin Totals. Totals.			64-12 49-36	8, 982. 19	
Poledo, St. Louis & Kansas City Pulnon Stock Yards & Transit Co. Wabash. Wassash. Chestor & Western Wassonsin Contral Lines* Chicago & Wisconsin Totals	-				
Poledo, St. Louis & Kansas City. Union Stock Yards & Transit Co. Wabash. Wasaba. Chector & Wesern Wisconsta Contral Lines". Chicago & Wisconsin. Totals.	-	45.20	11.83	1 181 27	
112	-	s & Kansas Ci ds & Transit			Totals

1			-190009862822222222328288888888888888888888888	588
19	D D LES	Aggregate length in feet	43, 982 43, 982 7, 1574 7, 1574 7, 1941 17, 941 17, 941 17, 941 17, 941 17, 941 1, 222 1, 22	11,892 54,008 20,112
18	TRESTLES AND PILE,	Number	214 214 214 214 214 214 214 214 214 214	
17		No. of combination	12	÷
16	EE C.	No. of wooden		33.6 °
15	BRIDGES.	No. of iron	15 m H H 15 15	0101 <u>2</u>
14		No. of stone	800 13 13	
13		Miles of slag	6.00	
12		Miles of earth	$\begin{array}{c} 118.51\\ 118.51\\ 11.36\\ 11.47\\ 11.47\\ 11.47\\ 11.47\\ 11.36\\ 11.47\\ 11.46\\ 11.36\\ 11.47\\ 11.36\\ 11.47\\ 11.36\\ 11.36\\ 11.47\\ 11.36\\ 11.36\\ 11.47\\ 11.36\\ $	$\begin{array}{c c} 7.81 \\ 23.42 \\ 2.32 \\ 2.32 \\ 2.32 \\ 10.50 \\ \end{array}$
п	Ballast.	Miles of cinders		
10	BAI	Miles of sand or gravel	1339.73 1339.73 1339.73 1337.01 157.0	$\begin{array}{c} 21.60\\ 159.37\\ 288.26 \end{array}$
6		Miles of stone	2:8:29 5:52 12:94 13:02	.05
		NAME OF COMPANY.		 Illinois Valley & Northern. St. Louis, Rock Island, & Chicago. Othicago, Milwankee & St. Paul.

Table XIII.—Continued.

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56. 600 335. 3, 331, 1251 11, 1251 11, 1251 12, 538 335, 125 335, 125 35, 12535, 125 35, 125 35, 12535, 125 35, 125 35, 12535, 125 35, 125, 125, 125, 125, 125, 125, 125, 12	$160\\548\\250\\250\\898\\628\\180\\180\\081\\081$
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12 23 20 00 00 00 00 00 00 00 00 00 00 00 00	1.75
118.10 111.20 111.20 111.20 111.20 112.00	$\begin{array}{c} 4.11\\ 2.92\\ 6.00\\ 70.00 \end{array}$
	16
33, 51 29 20 20 20 20 20 20 20 20 20 20 20 20 20	4.43
$\begin{array}{c} \begin{array}{c} & & & & & \\ 1416.70 \\ 1416.70 \\ 1416.70 \\ 1416.70 \\ 1416.70 \\ 1416.71 \\ 1415.11 \\ 14$	$\begin{array}{c} 2 & 50 \\ 110 & 25 \\ 118 & 01 \\ 107 & 00 \end{array}$
	6
6 6 90 1.50 2.82 2.82 2.90 0.0 1.50 1.50 2.90 0.0 1.50 1	10.25 13.00
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Louis ans ern in & Vesti Reveal Pittsburg Pittsburg Insas: Cit alley alley rondelet et ng. western wes	& (ker ker svill
s. St. Louis. Understein weight of the second se	yne out ans ans
a & St. Louis. Southease ern. Island & Pazifio teau Valley. Touis & Pittsburg onis & Pittsburg onine & Pittsburg onine & Pittsburg onine & Pittsburg onine & Pittsburg onine & Pittsburg onine & Pittsburg Connecting. Norther Bastron Southeat pr. Bastron Connect pr. Connect pr. Connect pr. Connect pr. Connect pr. Connecting. Norther Bastron Southeat on Souther Dis Souther on Souther Dis Sou	yayne 2 Wayne 2 Wnion & Evansv Peoria
 O. Peoria & S. O. Peoria & S. Souriale Source S	nee nsylvania C alumet River ttsburgh, t touth Chicago outh Chicago ria & Pekin ria, Decatur ria, Bland & I Louis, Alton
the second secon	vnee alumet J ittsburg outh Ch outh Ch oria & P oria, Dec 2k Islan Zouis, A
Ohieazo, Pee Jacksonvii Luiushile Peoria & I. Chicago, Roy Peoria & J. Chicago, St. Chicago, St. Colistillo, St. Lake Ehote & O. Mobile & O. Mobile & O. Net, Louisvillo, St. Chicago, St.	awnee ennsylvan Calumet I Pittsburg South Chi South
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	Aggregate length	2, 25, 25, 189 9, 865 9, 865 9, 22, 25, 25, 25, 25, 25, 25, 25, 25, 25
	in teet	2, 2, 2, 2, 2, 3, 2, 2, 3, 2, 2, 3, 2, 2, 3, 2, 2, 3, 2, 3, 2, 3, 2, 3, 2, 3, 2, 3, 2, 3, 2, 3, 2, 3, 2, 3, 2, 3, 3, 2, 3, 3, 1, 2, 3, 3, 1, 2, 3, 1, 1, 2, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
TRESTLES PILE.	Number	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
;	No. of combination	
S S S S S S S S S S S S S S S S S S S	No. of wooden	
BRIDGES.	No. of iron	
	No. of stone	6 1.020
	Miles of slag	<u>81</u> 83
1	Miles of earth	1.50 51.90 1.50 54.90 1.00 14.00 1.00 14.00 1.00 14.00 1.00 14.00 1.00 14.00 1.00 14.00 1.00 14.00 1.00 14.00 1.00 14.00 1.00 14.03 1.00 14.03 1.00 14.03 1.00 14.03 1.00 14.03 1.00 14.03 1.00 14.03 1.00 14.03 1.00 14.03 1.00 14.03 1.00 14.03 1.00 14.04 1.00 14.04 1.00 14.04 1.00 14.04 1.00 14.04 1.00 14.04 1.00 14.04
BALLAST.	Miles of cinders	1.50 1.50 1.09 1.09 50 50 1.14 560.14
BA	Miles of sand and gravel	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
•	Miles of stone	7.5.50 38.20 38.20 38.20 400 57.14 57.14 57.14 57.14 57.14 57.14 57.14 57.50 5
	NAME OF COMPANY.	88 St. Louis, Alton & Terre Haute. 99 Belleville & Carondelet. 99 Belleville & Southern Illinois. 901 Belleville & Southern Illinois. 903 Chicago, St. Louis & Paducah. 904 Chicago, St. Louis & Paducah. 905 Chicago, St. Louis & Southern Illinois. 906 St. Louis & Chicago. 907 Terminal R. R. Ass'n of St. Louis. 908 St. Louis & Peoria. 909 St. Louis & Vandala & Toruis. 909 St. Louis & Vandala & Toruis. 909 St. Louis & Western 909 St. Louis & Western 909 St. Louis & Western 901 Terre Haute & Western 903 St. Louis & Western 904 Porta & Western 905 St. Louis & Western 906 St. Louis & Western 907 Poicago & Wisconsin Contral Lines* 908 Totals.

Table XIII.-Continued.

TABLE XIV.—Consumption of Fuel by Locomotives, whole line, for year ending June 30, 1890.

9	age s con- d per le.	8313315368888888888888888888888888888888
	Average pounds con- sumed per mile.	8888888 : 88888888888888888888888888888
Ω	Miles run.	91, 913, 913, 00 1111, 1115, 473, 00 1111, 473, 00 1111, 473, 00 1111, 473, 00 1111, 473, 00 1111, 473, 00 1111, 473, 00 1121, 473, 00 1121, 473, 00 1121, 473, 00 1121, 473, 00 1211, 474, 0
PASSENGER.	Total fuel consumed- tons,	23, 541, 60 24, 551, 60 25, 583, 60 21, 583, 60 21, 583, 60 21, 583, 60 22, 583, 60 23, 583, 60 24, 50, 60 11, 165, 90 11, 16
3 PASS	WooD-CoRDS, ard. Soft.	746.00 746.00 733.00 332.00 333.00 758.00 175.00 175.00 948.00 948.00 758.00 948.00 758.00 758.00 758.00 758.00 758.00 758.00 759.75 80.75 80.75 80.75 80.75 80.00 75.648.000 75.648.000 75.648.000 75.648.0000 75.648.00000 75.648.00000000000000000000000000000000000
¢)	Wood-Hard.	H m n HH
-	Coal-Tons. Bituminous.	21, 221, 201 22, 221, 221, 00 23, 221, 00 24, 222, 00 25, 223, 00 25, 233, 00 25, 25, 00 25, 2
	NAME OF COMPANY.	 Atchison, Topeka, & Santa Fe Battinore and Ohio Chicago & Altonic Chicago & Altonic Chicago & Altonic Chicago & Ratantic Chicago & Ratantic Chicago & Ratantic Chicago & Northwestern Chicago Burlington & Northern Chicago Burlington & Muinay (1) Chicago Burlington & Quinay (1) Chicago Burlington & Quinay (1) Chicago St. Jouis & Pittsburgh. Chicago St. Jouis & Souch. Chicago St. Jouis & Souch. Chicago St. Jouis & Bastern. Elgrin, Joliet & Eastern. Elgrin, Joliet & Bastern. Chicaga Contral. Chicaga St. Junois Southern. Chicaga Contral. Chicaga St. Junois Southern. Chicaga Contral. Chicaga St. Jouis Southern. Chicaga Contral. Chicaga St. Jouis Southern. Chicaga Contral. Chicaga St. Junois Southern. Chicaga Contral. Chicaga St. Junois Southern. Chicaga Southern. Chicaga Southern. Chicaga St. Junois Southern. Chicaga Southern. Chicaga Southern. Chicaga St. Junois Southern. Chicaga Southern.

		888 888 1111 1110 1110 1110 1110 1110 1
9	Average pounds con- sumed per mile.	$\begin{array}{c} 4.8, 956, 00\\ 1.677, 886, 00\\ 2.637, 589, 00\\ 2.837, 739, 00\\ 88, 156, 00\\ 386, 1572, 00\\ 386, 1572, 00\\ 386, 156, 00\\ 386, 156, 00\\ 386, 156, 00\\ 386, 156, 00\\ 386, 156, 00\\ 386, 156, 00\\ 386, 156, 00\\ 386, 156, 00\\ 386, 156, 00\\ 386, 156, 00\\ 386, 156, 00\\ 386, 166, 00\\ 44, 561, 882, 00\\ 44, 561, 882, 00\\ 44, 561, 882, 00\\ 44, 561, 882, 00\\ 44, 561, 882, 00\\ 44, 561, 882, 00\\ 44, 561, 882, 00\\ 44, 561, 882, 00\\ 45, 56, 80\\ 44, 561, 882, 00\\ 45, 56, 80\\ 44, 561, 882, 00\\ 56, 80\\ 56, 00\\ 55, 60\\ 56, 00\\ 56$
υ	Miles run.	1,077,586,00 1,077,586,00 2,633,759,00 2,633,759,00 331,579,00 331,579,00 331,579,00 331,573,00 331,573,00 331,573,00 332,573,00 332,573,00 332,573,00 332,573,00 334,573,00 34,573,000,00 34,573,000,00 34,573,000,000,000,000,000,000,000,000,000,0
4 NGER.	Total fuel consumed- tons.	12, 763, 50 73, 218, 00 73, 218, 00 73, 218, 00 6, 413, 00 7, 50, 00 10, 688, 00 11, 188, 00 11,
3 a A A A A A A A A A A A A A A A A A A	Woon-Corns. ard. Soft.	2,175,63 2,175,63 72,00 50,00 50,00 3,231,00 3,231,00 3,231,00 1,918,37 1,918,37 1,918,37 1,918,37 1,918,37 1,918,37 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 1,6178,78 2,910,90 3,2211,00 3,2211,00 3,2211,00 3,2211,00 3,221,00 5,222,00 5,222,000,000,000,000,000,000,000,000,00
ત્ર	WooD- Hard.	
T.	CoAL-TONS. Bituminous.	12, 676, 50 12, 676, 50 10, 658, 40 10, 658, 40 10, 688, 40 10, 688, 40 10, 688, 40 10, 688, 40 10, 688, 40 11, 188, 60 11, 188, 60 10, 198, 20 10, 1
	NAME OF COMPANY.	 New York, Chicago & St. Louis Ohio, & Mississippi. Ohio, Ludiana & Western Pennsylvania Co. (Dr. P., Ft. W& C.). Pennsylvania Co. (Dr. P., Ft. W& C.). Pennsylvania Co. (Dr. P., Pr. P., W. C.). Pennsylvania Co. (Dr. P., Pr. W. C.). Pennsylvania Co. (Dr. P., Pr. M. C.). Pennsylvania Co. (Dr. P., Pr. P., W. C.). Pennsylvania Co. (Dr. P., Pr. P., P., W. C.). Pennsylvania Co. (Dr. P., Pr. P., P., P., P., P., P., P., P., P., P.

(I) East of Missouri River.

Table XIV.—Continued.

TABLE XIV.—Consumption of Fuel by Locomotives, Whole Line, for year ending June 30, 1890.—Continued.

				د مبل	ကည	45	128	121													-		
12		Average pounds con-	sumed per mile.	99.00 131.00						107 90												92.33 96.00	
11		Miles nur		$\begin{array}{c} 2,289,515,00\\ 1,506,511,00\\ 10,657,00\end{array}$	3,583,214.00	1,222,706.00	2, 340, 202, 00 14, 731, 227, 00 85, 897, 00	853, 097.00	13, 357, 293, 00	3,403,294.00 3,025,316,00	5,493,675.00	351, 139. 00	284,397.00	36,540.00	7, 931, 397, 00	55,069.00	201.332.00	$1, \overline{175}, \overline{835}, 00$	9, 266, 196, 00	560, 441.00	5.0, 550.00 1.349.473.00	6, 836, 655, 00 471, 180, 00	
10	MGHT.	FREIGHT.	Total fuel	tons.	113, 384, 00 99, 199, 00	168, 461, 00 79, 490, 00	63, 452, 00	00.111, 000.001	AA . A	524,784.08 495.483.00	115,680.00 165,890.60	255, 921, 25	16, 415.50	12,926.00 1.279 00	2,163.00	376, 239, 02	2, 908, 00	7, 856, 00	50, 385.00	365,089,00	26, 053, 66	70.803.73	315, 507, 75
6	FREIC	WOOD-CORDS.	Soft.				12,200.00		15, 230, 00											246.25			
œ		W00D-	Hard.	1,970.00	3,192.00		8, 241.00			1.820.00	-		290.00 48 00		10.938.12	-		1,110.50			1 235 60	÷	
4		COAL-TONS.	Bituminous.	112, 071, 00 98, 820, 00	166, 333, 00 78, 891, 00	62, 937.00	665, 020, 00 1 7:00 00	:		114, 467, 00			12,733.00		2							315, 507. 75 22, 638, 00	
AME OF COMPANY. COAL-TONS. Bituminous.				1 Atchison, Topeka & Santa Fe 5 Baltimore & Ohio.	9 Objeago & Alton. 19 Objeago & Alton.	& Easter	21 Chicago & Grand Trunk. 21 Chicago & Northwestern. 23 Chicago & Northwestern.	24 Chicago, Burlington & Northern	25 Chicago, Burlington & Quincy (1)	36 Unicago, St. Louis & Pittsburgh. 38 Chicago, St. Pouls & Pittsburgh.	3) Oleveland, Cincinnati, Chicago & St. Louis.	43 Peoria & Eastern.	48 Elgin, Joliet & Eastern	53 Grand Tower & Carbondale.	54 Grand Tower & Cape Girardeau. 55 Illinois Central.	65 Indiana & Illinois Southern	67 Indiana. Illinois & Towa.	68 Iowa Central	72 Lake Erle & Western 72 Lake Shore & Michigan Southern	74 Louisville & Nashville.	77 Louisville, Evansville & St. L., Consolidated.	78 Michigan Central. 80 Mobile & Obio.	

Table XIV.—Continued.

				888888888888888888888888888888888888888
12		Average nounds con-	sumed per mile.	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
11			Miles run.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
10	ант.	Total fuel	consumed- tons.	208, 606, 10 208, 606, 10 21, 111, 00 21, 50 11, 50
6	FREIGHT	CORDS.	Soft.	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
~		W00D-CORDS.	Hard.	29, 3, 39, 29, 29, 29, 29, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20
7		COAL-TONS.	Bituminous.	207, 553, 10 20, 102, 002, 00 20, 102, 00 20, 102, 00 20, 102, 00 21, 17, 00 11, 107, 00 11, 107, 00 11, 107, 00 13, 141, 00 13, 10, 10 13, 10, 10 13, 10, 10 13, 10, 10 14,
		NAME OF CONFANY.		 New York, Chicago & St. Louis. Ohio & Mississippi. Ohio A Mississippi. Ohio, Judiana & Western. Pennsylvania Co. (Operating P., Ft, W. & G.). Peornasylvania Co. (Operating P., Ft, W. & G.). St. Louis & Poorna. Peornasylvania Plaute St. Louis & Poorna. Peornasylvania Plaute Peornasylvania Pla

Includes fuel consumed by switching and construction locomotives, [3] East of Misserup by switching and construction locomotives, [3] East of Misserup River.
 [4] Includes fuel consumed by locomotives in mixed trains,

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1				C2222222222222222222222222222222222222
61		Average nonnds.con-	sumed per mile.	88828888888888888888888888888888888888
18				788, 607, 00 817, 739, 00 817, 739, 00 817, 739, 00 1, 589, 582, 00 772, 582, 293, 00 1, 559, 181, 00 1, 559, 183, 00 1, 559, 159, 00 1, 559, 159, 00 1, 559, 159, 00 1, 559, 00
17		Total fuel	consumed tons.	$\begin{array}{c} 19,665,00\\ 16,265,00\\ 16,401,00\\ 16,55,554,00\\ 17,555,560\\ 17,565,00\\ 17,565,00\\ 17,565,00\\ 17,565,00\\ 17,565,00\\ 18,574,00\\ 18,565,00\\ 18,559,00\\ $
16	SWITCHING.	WOOD-CORDS.	Soft.	$\begin{array}{c c} 493.00\\ \hline 1.237.00\\ \hline 2.36.00\\ \hline 1.831.00\\ \hline 1.821.00\\ \hline 1.771.00\\ \hline 1.771.00\\ \hline 1.822.00\\ \hline 2.178.00\\ \hline 3.083.00\\ \hline 2.31.00\\ \hline 2.31.00\\ \hline 2.31.00\\ \hline 1.49.01\\ \hline $
15	02	Wood-	Hard.	39 11 11
14		Tons.	Bituminous.	8, 4, 21, 23, 23, 24, 24, 24, 24, 24, 24, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25
13			COAL-TONS.	Anthracite.
	NAME OF COMPANY.			Atchison, Topeka & Santa Fe FBelf Inalway of Chicago FBelf Inalway of Chicago FORICAR A Santa Fe FBelf Inalway of Chicago FORICAR Contractor FORICARCON FORICARCON <

			1	$88\\92\\93\\93\\93\\93\\110\\1110\\1110\\1111\\1110\\1111\\1111$		
19		Average nonnds con-	sumed per mile.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
18			Miles run.			
41		Total fuel	consumed- tons.	$\begin{array}{c} 4,085,00\\ 61,470,11\\ 51,272,00\\ 1,372,00\\ 1,372,00\\ 35,420,11\\ 35,260\\ 1,372,00\\ 5,141,00\\ 5,141,00\\ 1,072,00\\ 1,072,00\\ 1,072,00\\ 1,072,00\\ 1,072,00\\ 1,072,00\\ 1,072,00\\ 1,072,00\\ 1,072,00\\ 1,00,482,77\\ 1,204,482,77\\ 1$		
16	SWITCHING.	WOOD-CORDS.	Soft.	1, 230, 00 1, 230, 00 15, 00 2970, 00 2960, 00 15, 00 15, 60 15, 60 15, 60 15, 60 15, 60 16, 00 16, 00 16, 00 16, 00 14, 702, 97 8, 750, 04 14, 702, 97 8, 750, 04 14, 702, 97 14, 7		
15		02		W00D-	Hard.	
14			COAL-TONS.	Bituminous.	4, 020, 00 53, 670, 014 1, 1320, 00 1, 1320, 00 1, 1320, 00 1, 1320, 00 1, 1320, 00 1, 057, 00	
13			COAL-	Anthracite.	1,581.00	
		NAME OF COMPANY.		86 Ohio, Indiana & Western 88 Denis ylvania Co. (Op. Pitts., Ft. W. & Chi)) 88 Peoria & Peoria Unons. 89 Peoria & Peoria Unons. 89 Peoria & Peoria & Beoria 99 Guiney, Omaha & Kansas Gity 99 Guiney, Omaha & Kansas Gity 98 St. Louis, Alton & Terre Haute 98 St. Louis, Alton & Terre Haute 98 St. Louis & Richananolis 107 Terrup Haute & Peoria 117 Oledo, Peoria & Western 111 Oledo, St. Louis & Kansas City 114 Wabash 116 Wisconsin Central Lines 116 Wisconsin Central Lines 116 Wisconsin Central Lines 116 Wisconsin Central Lines		

(1) Includes fuel used by construction locomotives.

Table XIV.—Continued.

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				91115558888889998255522222	
25		Average	sumed per mile.	848 848 848 848 848 848 848 848 848 848	41.510 41.510 37.61 78.00
24		Miles run.		206, 924, 00 158, 738, 00 156, 738, 00 156, 738, 00 156, 738, 00 157, 121, 00 231, 210, 00 231, 210, 00 231, 210, 00 231, 210, 00 171, 233, 00 231, 210, 00 231, 213, 00 171, 233, 00 231, 213, 00 231, 233, 00 5, 433, 00 171, 233, 00 231, 233, 00 171, 233, 00 231, 233, 00 5, 433, 00 171, 233, 00 231, 233, 00 5, 433, 00 171, 233, 00 231, 233, 00 171, 233, 00 231, 232, 00 231, 00 2	$\begin{array}{c} 26,957,00\\ 26,957,00\\ 317,132,00\\ 5,338,00\\ 16,586,00\end{array}$
23	CONSTRUCTION.	STRUCTION.	con-umed	7, 386, 00 5, 301, 00 4, 355, 00 4, 5, 00 4, 5, 00 5, 155, 00 4, 5, 00 5, 155, 00 6, 175, 00 8, 355, 00	$\begin{array}{c} 587.00\\ 6,582.50\\ 100.03\\ 649.00\end{array}$
22	CONSTR	WOOD-CORDS.	Soft.	594.00 514.00 14.00 14.00 80.09	11.00
21		W00D-	Hard.	98.00 161.13 26.00 420.00 115.00 73.56 73.56 667.02 47.00 147.00	$\substack{18.00\\315.25}{4.00}$
20		COAL-TONS.	Bituminous.	7, 224, 00 7, 225, 00 7, 205, 00 7, 205	6, 372, 50 98, 40 638, 00 638, 00
NAME OF COMPANY.				Atchison, Topeka & Santa Fe 9 Atchisago & Altoni. 9 Chicago & Manuforman. 9 Chicago & Burlington & Northern 9 Chicago Burlington & Northern 9 Chicago Burlington & Northern 9 Chicago St. Louis & Pittsburgh. 9 Chicago St. Louis & Pittsburgh. 9 Chicago St. Louis & Pittsburgh. 9 Chicago St. Louis & St. Louis. 9 Chicago St. Louis & St. Paul. 9 Chicago St. Louis & St. Paul. 9 Chicago St. Louis & St. Paul. 9 Chicago St. Louis & St. Chouis. 10 Fankakee & Senee. 11 St. Paula & St. Paul. 12 Leoria & Eastern. 13 Fankakee & Senee. 14 Paoria & Sener. 15 Louis Vile. 16 Inianapolis. 17	86 Ohio & Misserphi. 88 Pennsylvania & Western 88 Pennsylvania Co. (0p. Pitts, Ft. Wayne & Chi. 88 Pennsylvania Co. (0p. South Chi. & Southern). 98 Peonta, Decatur & Evansylle.

Table XIV.-Continued.

				94 95 95 95 95 91 111 112 1112	
25		Average pounds con-	sumed per mile.	4, 320, 00 250, 00 13, 833, 00 57, 00 13, 833, 00 67, 02 13, 833, 00 67, 02 13, 833, 00 67, 02 13, 835, 00 67, 02 13, 835, 00 67, 02 13, 825, 00 64, 10 51, 738, 00 63, 00 261, 738, 00 39, 00 9, 133, 103, 00 65, 10	
24	CONSTRUCTION.			TILES FULL	4, 320, 00 13, 848, 00 31, 531, 00 8, 855, 00 8, 855, 00 8, 855, 00 351, 822, 00 351, 730, 00 6, 513, 933, 00
53 53		Total fuel	consumed	540.00 1,65.61 1381.00 11,727.00 5,003.50 169,006.83	
63		CORDS.	Soft.	6.00 59.00 39.00 39.00 39.00 1,057.09	
12		WOOD-CORDS.	Hard.	ci	
20		COAL-TONS.	Bituminous.	540.00 1.022.00 1.022.00 1.227.00 11.227.00 4.852.50 106.277.62	
NAME OF COMPANY.				94 Quiney, Omaha, & Kansas City 35 Rock Island & Peoria 36 St. Louis, Alton & Perre Haute 101 Toledo, St. Louis & Kansas City 112 Toledo, St. Louis & Kansas City 112 Toledo, St. Louis & Kansas City 116 Wisconsin Central Lines	

(1). Fuel included in that used in freight service.

	26	27	28	29	30	
NAME OF COMPANY.	Grand total fuel consumedTons.	Grand total miles	Average pounds con- sumed per mile	Average cost coal per ton at distrib- uting point	Average cost wood per cord at distrib- uting point	
 1 Atchison, Topeka & Santa Fe 5 Baltimore & Ohio 7 Belt Railway of Chicago 8 Centralia & Chester 9 Chicago & Alton 12 Chicago & Atlantic 14 Chicago & Eastern Illinois 17 Chicago & Grand Trunk 21 Chicago & Morthwestern 23 Chicago, Burlington & Northern 24 Chicago, Burlington & Northern 25 Chicago, Burlington & Northern 26 Chicago, Burlington & Vainey 29 Chicago, St. Louis & Pittsburgh 20 Chicago, St. Louis & Pittsburgh 21 Chicago, St. Louis & Mansas City 29 Chicago, St. Louis & Mansas City 29 Chicago, St. Louis & Mansas City 29 Cleveland, Cin., Chicago & St.L. 24 Kankake & Seneca. 25 Grand Tower & Carbondale 26 Grand Tower & Carbondale 27 Grand Tower & Carbondale 28 Grand Tower & Carbondale 39 Grand Tower & Carbondale 30 Grand Tower & Carbondale 31 Griana, Illinois Southern. 32 Giana & Illinois Southern. 34 Indiana & Illinois Southern. 35 Iowa Central 36 Lowa Central 37 Lake Erie & Western. 38 Lake Erie & Western. 39 Lake Shore & Michigan Southern. 30 Cinavelie & Pasting Southern. 31 Lake Erie & Western. 32 Lake Shore & Michigan Southern. 34 Chicago, Sulica Southern. 35 Louisville & Rashville 	$\begin{array}{c} 179, 896.00\\ 158, 091.00\\ 32, 685.00\\ 480.00\\ 225, 492.00\\ 124, 318.00\\ 111, 705.00\\ 179, 190.16\\ 1, 099.064.00\\ 1, 776.00\\ (961, 886.00\\ 757, 784, 30\\ 999.966.00\\ (9225, 581.00\\ (2)225, 581.00\\ (2)225, 581.00\\ (2)225, 581.00\\ (2)225, 581.00\\ (2)25, 581.$	$\begin{array}{c} 1,495,032,00\\ (3)13,331,531,00\\ 26,682,178,00\\ 18,927,423,00\\ 4,936,799,00\\ 4,936,799,00\\ 12,174,082,00\\ 58,479,00\\ 703,659,00\\ 104,462,00\\ 104,4653,00\\ 76,372,00\\ 25,313,00\\ 25,313,00\\ 111,015,00\\ 515,750,00\\ 0,355,105,00\\ 111,015,00\\ 515,750,00\\ 0,38,955,00\\ 2,990,283,00\\ 18,586,767,00\\ \end{array}$	$\begin{array}{c} 82.00\\ 105.00\\ 67.00\\ 48.00\\ 78.02\\ 83.51\\ 88.40\\ 76.25\\ 41.39\\ 83.60\\ (^{\circ})97.85\\ 74.00\\ (^{\circ})97.85\\ 74.00\\ (^{\circ})97.85\\ 74.00\\ (^{\circ})97.85\\ 77.27\\ 54.00\\ 83.60\\ 77.27\\ 52.55\\ 117.00\\ 87.79\\ 52.55\\ 117.00\\ 67.22\\ 55.00\\ 68.21\\ 117.00\\ 65.90\\ 66.21\\ 65.90\\ 60.12\\ 72.22\\ 60$	$\begin{array}{c} 1 56\\ 1 85\\ 1 85\\ 1 80\\ 1 11\\ 2 05\\ 1 83\\ 1 15\\ 2 52\\ 1 38\\ 1 15\\ 2 52\\ 1 38\\ 1 89\\ 1 80\\ (9)1 45\\ 1 45\\ 1 45\\ 1 45\\ 1 00\\ 1 00\\ 1 00\\ 1 00\\ 1 00\\ 1 00\\ 1 64\\ 1 64\\ 1 35\\ \end{array}$	$\begin{array}{c}1&03\\3&25\\4&009\\1&09\\2&25\\2&261\\1&30\\2&259\\2&248\\2&259\\2&259\\2&248\\2&259\\2&259\\2&269\\2&269\\2&270\\2&200\\2&200$	$38 \\ 39 \\ 42 \\ 43 \\ 45 \\ 48 \\ 51 \\ 53 \\ 54 \\ *55 \\ 65 \\ 66 \\ 66 \\ 66 \\ 66 \\ 66 \\ 6$
 (Consolidated). (Consolidated). (Consolidated). 77 Louisville. New Albany & Chicago. 78 Michigan Central. 80 Mobile & Ohio. 81 New York, Chicago & St. Louis. 85 Ohio & Missispipi. 86 Ohio, Indiana & Western. 87 Pawnee 88 Penn. Co. (Op. P., Ft. W. & C.). 88 Penn. Co. (Op. So. Chi, & Southern) 92 Peoria & Pekin Union. 93 Peoria & Decatur & Evansville. 94 Quincy, Omaha & Kanasa City. 95 Rock Island & Peoria. 96 St. Louis, Alton & Springfield 	$\begin{array}{c} 49,017.00\\ 115,224.79\\ 514,466.00\\ 34,315.00\\ 258,732.10\\ (1)178,589.00\\ 36,526.00\\ 36,526.00\\ 390,884.75\\ 1,415.95\\ 10,500.00\\ 22,513.00\\ 8,360.00\\ 8,360.00\\ 18,272.36\\ 5,300.00\end{array}$	$\begin{array}{c} 2,756,218,00\\ 15,397,796,00\\ 1,(23,140,00\\ 5,953,150,00\\ 4,671,635,00\\ 961,762,00\\ 7,000,00\\ 7,000,00\\ 9,849,409,00\\ 41,980,00\\ 525,000,00\\ 780,899,00\\ 218,872,00\\ 447,721,00\end{array}$	$\begin{array}{c} 58.06\\ 83.61\\ 66.82\\ 67.00\\ 86.90\\ 78.70\\ 72.00\\ 56.28\\ 79.37\\ 67.43\\ 40.00\\ 57.00\\ 57.00\\ 81.62\end{array}$	$ \begin{array}{c} 1 53 \\ 2 11 \\ 97 \\ 1 63 \\ 91 \\ 1 40 \\ 1 33 \\ 1 38 \\ 1 08 \\ 88 \\ 1 75 \\ \end{array} $	$\begin{array}{c} 2 \ 40 \\ \hline 1 \ 26 \\ 91 \\ 2 \ 00 \\ \hline 2 \ 52 \\ 2 \ 31 \\ \hline 1 \ 25 \\ 1 \ 20 \end{array}$	76 777 788 80 83 85 86 87 90 91 92 93 94 95 96

(1) Cannot give amount of fuelconsumed by the different classes of locomotives.
(2) Includes fuel consumed by Englewood Connecting R'y Co.
(3) Does not include mileage of switching and construction engines.
(4) Applies to passenger and freight locomotives only.
(5) Includes 1.695 cords of hard wood.
(4) Lump coal. Nut, \$1.16; slack, 45 cents.
(4) Includes 300 cords of hard wood.
(5) Cost of anthracite coal, \$8.26 per ton.

Table XIV.—Continued.

	26	27	28	29	30	
NAME OF COMPANY.	Grand total fuel con- sumed.—Tons	Grand total miles	Average pounds con- sumed per mile	Average cost coal per ton at distrib- uting point	Average cost wood percord at distrib- uting point	
98 St. Louis, Alton & Terre Haute 105 St. Louis & Chicago	28.653.00	$\begin{array}{c} 90,783.00\\ 6,776.00\\ (1),,764,571.00\\ 372,044.00\\ 934.066.00\\ 2,540,990.00\\ 15,099,843.00\\ 80,428.00\\ 4,776,348.00\\ \end{array}$	76.42 179.00 78.10 78.31 68.63 79.50 74.20 43.45 70.00	$ \begin{array}{c} 1 & 00 \\ & 60 \\ 1 & 27 \\ 1 & 03 \\ 1 & 55 \\ 1 & 14 \\ 1 & 00 \\ 1 & 22 \\ & 73 \\ 2 & 30 \\ \end{array} $	$ \begin{array}{r} 3 25 \\ 2 00 \\ $	108 110 111 112 112 114 115 1

(1) Cannot give miles run by switching locomotives.

TABLE XV.-Accidents in Illinois for Year ending June 30, 1890.

			83388888888888888888888888888888888888
12	GRAND '	Fotal	882222222222222222222222222222222222222
11	AL.	Injured.	8,42,50,00,50,50,00,00,00,00,00,00,00,00,00,
10	TOTAL.	K lled	
6		Total	
~~~~	OTHERS.	Injured.	<u></u>
i.		Killed	Booner and 25 - 3 - 3 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -
9		Total	2.04 :218320 :21274 :Losg8201801
τņ	EMPLOYES.	Injured.	<u>7888</u> 2222 22 22 22 22 22 22 22 22 22 22 22
4	EM	Killed	1 2 10 1 2 10 1 2 10 10 10 10 10 10 10 10 10 10 10 10 10
		Total	
61	PASSENGERS.	Injured.	
1	PAS	Killed	
NAME OF COMPANY.			1       Atchison, Topeka & Santa Fe.         1       Beitfmore & Ohio.         1       Beitfmore & Ohio.         1       Beitfmore & Ohio.         1       Beitfmore & Ohio.         1       Beiter Railway of Chester.         1       Chicago & Atlanti.         1       Chicago & Neathern Indiana.         1       Chicago & Northwestern.         2       Chicago & Nilwaukee & St. Paul         2       Chicago, Rock Island & Pous.         2       Chicago, Rock Island & Station.         2       Chicago, Rock Island & Station.         3       Chicago, Rock Island & Station. </td

Table XV.—Continued.

1			111110820288888888888888888888888888888	
15	GRAND	Totas	- 2835a a 2834855 2829 282 283 2 283 2 283 2 283 2 283 2 283 2 283 2 283 2 283 2 283 2 283 2 283 2 283 2 283 2 	2,132
=	ij	Injured.		1,564
10	TOTAL.	Killed		568
6		Total	- ชื่องหยุธิย - มีองหยุธิย - มีองหยุธิย	734
~~~	OTHERS.	Injured.		369
1~	0	Killed	2000-00-00-00 -00-00-00-00-00-00-00-00-00	3 65
9		Total	199963332 6 6 4 17 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1,235
r3	G Injured.		10522-93922 8412-93922 8512-93922 8512-93922 8512-93922 8512-93922 8512-9322 8512-9322 8512-9322 8512-9322 8512-9322 8512-9322 8512-9322 8512-9322 8512-932 8512 8512 8512 8512 8512 8512 8512 851	1,059
4	E	Killed	H0001 H 004 H0 H0 H0 H0	176
c:		Total	- <u>018</u> 125000018 F FRF \$	163
63	PASSENGERS.	Injured.		136
1	PA	Killed		27
	NAME OF COMPANY.		11 Lake Brie & Western 72 Lake Shre & Michigan Southern 73 Louisville, Bvansville & St. Louis Consold 74 Louisville, Bvansville & St. Louis Consold 77 Louisville, New Albany & Chicago 78 Michigan Central 78 Michigan Central 80 Mobile & Ohio 80 Nobile & Ohio 80 Ohio & Mississipui 80 Ohio, Indiana & Westorn 80 Ohio, Indiana & Westorn 81 Peoria 82 Peoria 83 Peoria 84 Peoria 85 Ohio, Indiana & Westorn 86 Ohio, Mississipui 88 Peoria 88 Peoria 88 Jouey & Peoria 88 Louis & Alton & Peoria 88 Louis & Pooria 88 Louis & Peoria 88 Louis & Peoria 88 Fouis & Peoria 88 Louis & Restern 88 Louis & Kransas City 88 Pouis & Fooria	Totals

Table XV.—Continued.

1			1	
30		ER.	Injured.	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
29		OTHER CAUSES.	Killed	000
58		T A- NS.	Injured.	
27		AT STA- TIONS.	Killed	
26		HIGH- WAY CROSS- INGS.	Injured.	
25			Killed	
54		TRAIN AC- CIDENTS.	Injured.	
23	KIND OF ACCIDENT.	COL- LIS- IJS- MENTS, CIDE	Killed	
	Acci		Injured.	
-21	OF /		Killed	
30	(IND		Injured.	
19	14		Killed	
18		OVER- HEAD OB- STRUC- TIONS.	Injured.	
-12			Killed	
16		FALLING FROM T'RAINS AND EN- GINES.	Injured.	
15		FAL FR TRA AND GIN	Killed	
FI		COUPLING AND UN- COUPLING.	Injured.	Aux 2000 0 10 10 10 10 10 10 10 10 10 10 10 1
13		Coup AND COUP	Killed	
	NAME OF COMPANY.			I Atchison. Topeka & Santa Fe. F Baltimore & Ohio. Ferralia & Chestor F Bent Railway of Chicazo Ferralia & Chestor 9 Chicago & Allonic Ferralia & Chestor 9 Chicago & Allonic Ferralia & Chestor 11 Chicago & Allonic Ferralia & Chestor 12 Chicago & Allonic Ferralia & Chestor 13 Chicago & Allonic Ferralia & Chestor 14 Chicago & Allonic Ferralia & Chestor 15 Chicago & Crand Frank Fortare 16 Chicago & Conton River Fortare 17 Chicago & Conton River Fortare 18 Chicago & Chicago & Chuch Fortare 19 Chicago & Chicago & Chicago Fortare 10 Chicago & Statan Fortare 11 Chicago & Statan

Table XV.—Continued.

[855 888 888 888 888 888 888 888 888 888	
8	ER. SES.	Injured.	-1-200320-131	529
29	OTHER CAUSES.	Killed		272
28	L SU NS	Injured.		57
25	AT STA- TIONS.	Killed		25
26	HIGH- WAY CROSS- INGS.	Injured.		20
5	HIGH- WAY CROSS- INGS.	Killed		53
ci	IER I AC- NTS.	Injured.		152
9 20 21 22 23 KIND OF ACCIDENT.	OTHER TRAIN AC- CIDENTS.	Killed	· · · · · · · · · · · · · · · · · · ·	102
22 Accu	DE- RAIL- MENTS.	Injured.		52
21 OF A	D D MEN	Killed		16
20 IND	COL- LIS- LONS.	Injured.		95
19 K1		Killed		12
18	OVER- HEAD OB- STRUC- TIONS.	Injured.		14
12	HH 0 0 0 STF TIO	Killed		10
16	FALLING FROM TRAINS AND EN- GINES.	Injured.		162
15	FALLING FROM TRAINS AND EN GINES.	Killed		37
14	LING UN- LING.	Injured.	338894011 19 C C C C C C C C C C C C C C C C C	433
13	COUPLING AND UN- COUPLING.	Killed		39
	NAME OF COMPANY.		 findiana, Illinois & Iowa forwa Central. fi Lake Shere & Wichigan Southern fi Lake Shere & Michigan Southern fi Louisville, Evashville & St. Louis, (Consolidated) fi Louisville, New Albany & Chicago. for the state of the	Totals

TABLE XVI.— <i>Taxes</i>	paid in Illinois in 1888,	1889 and 1890, for
	years ending June 30.	

	1	2	3	
NAME OF COMPANY.	1888.	1889.	1890.	
1 Atchison, Topeka & S. Fe. (Form. C., S. F. & C. 5 Baltimore & Ohio	\$34,038-88 15,890-48			1 5 7
5 Baltimore & Ohio	25,800 00 190,878 57 20,655 50	27,000 00 200,084 00	$28,000 \ 00 \ 186,403 \ 13 \ 31,055 \ 29$	9
12 Chicago & Atlantic 14 C icago & Eastern Illinois 17 Chicago & Grand Trunk	30,655 50 61,757 09 38,923 98	24,842 31 66,910 00 39,379 14	$ \begin{array}{r} 51,055 29 \\ 74,075 82 \\ 41,140 57 \end{array} $	$ \begin{array}{c} 12 \\ 14 \\ 17 \end{array} $
20 Chicago & Iowa 21 Chicago & Northwestern,	$\begin{array}{c} 17,640 \\ 186,338 \\ 31 \end{array}$	16,720 38 210,243 00	$\begin{array}{r} 16,556 & 87 \\ 188,485 & 86 \\ 7,752 & 78 \end{array}$	$\frac{20}{21}$
23 Chicago & Ohio River	$\begin{array}{c} 7,110 \ 00 \\ 1,353 \ 80 \\ 20,526 \ 66 \end{array}$	7,280 00		23
Chicago & Western. 24 Chicago, Burlington & Northern 25 Chicago, Burlington & Quincy 26 Galesburg and Rio	310,065 55	22,193 73 286,445 77 1,525 87	$\begin{array}{r} 20,884 \ 01 \\ 295,403 \ 11 \\ 1,485 \ 25 \end{array}$	$ \begin{array}{c} 24 \\ 25 \\ 26 \end{array} $
 27 Illinois Valley & Northern 28 St. Louis, Rock Island & Chicago 	53,867 71	5,812 30 48,214 53	8,389 46 50,455 14	$ \begin{array}{r} 26 \\ 27 \\ 28 \\ 29 \end{array} $
29 Chicago, Milwaukee & St. Paul 30 Chicago, Peoria & St. Louis	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{r} 91,084 \ 40 \\ (2)12,322 \ 12 \\ 143,203 \ 90 \end{array}$	$\begin{array}{r} 90,608 \ 40 \\ 16,737 \ 61 \\ 148,505 \ 77 \end{array}$	$ \begin{array}{c} 29 \\ 30 \\ 34 \end{array} $
		47,528 89	$ \begin{array}{c} 148,305 \\ 49,224 \\ 1,813 \\ 33 \end{array} $	36 37
 Finglewood Connecting	1,276 62 118,119 21	$\begin{array}{c} 19,693 \ 41 \\ 117,850 \ 15 \end{array}$	22,681 31 135,471 88	$\frac{38}{39}$
42 Kankakee & Seneca 44 DePue, Ladd & Eastern 45 East St. Louis & Carondelet 46 East St. Louis Connecting	0.218 21	6,660 44 4,349 22	6,496 59 150 15 3,155 72	42 44 45
46 East St. Louis Connecting	10,315 97	1,458 83 7,492 75	2,10054 17,52486	46 48
 Belis, Joliet & Eastern	1,934 54 5,485 26 2,485 26	4,948 45	2,589 81 5,030 60	51 53
55 Illinois Central	7,355 40 486,909 13 8,615 31	507,403 42 5,445 06	555,634 39 5,844 41	55 65
Indiana, Bloomington & Western 66 Indianapolis, Decatur & Western	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13,547 49	13 592 30	66
67 Indiana, Illinois & Iowa 88 Iowa Central Joliet Aurora & Northern		12,071 37	8,826 94 12,067 10	67 68
71 Lake Erie & Western 72 Lake Shore & Michigan Southern	2,191 05 7,984 06 45,168 87	46,089 95	$\frac{18,062}{48,069} \frac{88}{91}$	72
 68 Iowa Central. Joliet, Aurora & Northern. 71 Lake Erie & Western. 72 Lake Shore & Michigan Southern. 73 Louisville & Nashville. 76 Louisville, Evansville & St. L. Consol. 77 Louisville, New Albany & Chicago. 78 Michigan Central. 80 Mobile & Ohio. 88 New York Chicago & St. Louis 	34,595 26 9,583 37	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	37,232 93 17,652 22 14,513 90	74 76 77
78 Michigan Central 80 Mobile & Ohio	$\begin{array}{c} 23,299 & 64 \\ 29,938 & 15 \\ 15,206 & 63 \end{array}$	25.905 75	18 617 55	78
83 New York, Chicago & St. Louis 85 Ohio & Mississippi 86 Ohio, Indiana & Western	$15,206 \ 63$ 83,723 82 13,305 43	80,630 08	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	85
 88 Pennsylvania Co. (Op. Calumet River) 88 Pennsylvania Co. (Op. P., Ft. W. & C.) 89 Pennsylvania Co. (Op. So. Chi. & Southern). 	63,070 12	69.209 80	1,257 38 66,548 52	88 88
92 Peoria at Pekin Union	1 20.072.08	3,87272 22,18429	4,667 25 22,936 45	88 92
93 Peoria, Decatur & Evansville	32,946 23 22,933 06		1,206 57	$93 \\ 94 \\ 95$
 96 Rock Island & Peoria. 96 St. Louis, Alton & Springfield. 98 St. Louis, Alton & Terre Haute. 98 St. Louis & Central Illinoi 	38,271 37	6,052 50 34,742 53	8,655 21	96
St. Louis & Central Illinoi	5,935 58	•••••••	•••••	l

Table	XVI-	-Continued	
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		1	2	3	
	NAME OF COMPANY.		1889.	1890.	
106 107 108 110 111 112 114 115	St. Louis & Chicago St. Louis & Peoria St. Louis Bridge & Tunnel. Terminal R. R. Association of St. Louis Terre Haute & Indianapolis Terre Haute & Peoria Toledo, Peoria & Western Toledo, St. Louis & Kansas City Wabash, Chester & Western Wabash, St. Louis & Pacific Wabash Western Wabash Western Wabash Central Lines	$(3)57, 103 38 \\ 16, 053 85 \\ 34, 308 29 \\ 13, 071 02 \\ 3, 177 81 \\ 173, 229 12 \\ 2, 326 50 \\ 4, 969 93 \\ \hline \end{tabular}$	54,101 59 (3)54,517 90 15,239 93 34,451 22 11,152 93 2,490 18 123,175 10 1,778 00 9,726 44	\$00 00 36,457 54 (3)52,341 70 14,996 64 34,836 45 13,787 79 171,202 60 3,025 36 13,941 01	106 107 108 110 111 112 114 115
	Totals	\$2,739,612 53	\$2,825,988-72	\$3,021,904 49	

Jacksonville Southeastern in 1888.
 Louisville & St. Louis in 1889.
 Paid by lessor company.

TABLE XVII-Income Account Leased Lines, Whole Line, for year ending June 30, 1890.

		02H;	473	181	88888	588	666	4848 8	8898	223	3233	885	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Net	income	\$105,000 00 33,000 00	$\begin{array}{c} 272,410 \ 50 \\ 1,834 \ 49 \end{array}$			123, 936 20	1,224 85	26, 500 60	13, 501 83	32,012 60	100 00	2,681,488 40
2	ME.	Total deduc- tions from income	\$750 00 38,100 00	609,918 48 75,000 00	164, 560 00	16, 113 25 78, 181 46 225, 455 14	1,06380		206,100-00 43,709-60 21,250-00	$\begin{array}{c} 125,000 \ 00\\ 50,000 \ 00\\ 10,000 \ 00\end{array}$	57,000 00		803, 283 86 6, 150 00
9	FROM INCC	Other deduc- tions		\$91,368 46		$\begin{array}{c} 1,485 \\ 8,389 \\ 46 \\ 50,455 \\ 14 \end{array}$		-	5,529-04		56,000-00		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
13	DEDUCTIONS FROM INCOME.	Interest on funded debt.	\$38, 100-00	$518, 550 \ 02$ $75, 000 \ 00$ .	164,560 00	$\begin{array}{c} 14,628\\ 69,792\\ 00\\ 175,000\\ 00\end{array}$			206,100,00 38,180,56 21,250,00	$\begin{array}{c} 125,000 \ 00\\ 50,000 \ 00\\ 10,000 \ 00\\ 10,000 \ 00\end{array}$			$\begin{array}{c} 868.700 \\ 6,150 \\ 00 \end{array}$
4		Salaries and maintenance of organiza- tion	\$750_00				1,003 80				1,000 00		21,583 86
3	Tota	al income	\$105.750 00 71,100 00	882, 328 98 76, 834 49	164,560 00	16, 113 25 78, 181 46 225, 455 14	125,000 00	1,224.85	206, 100 00 70, 210 20 5, 937 04	$\begin{array}{c} 41,207 \ 70\\ 20,179 \ 17\\ 23,591 \ 83\end{array}$	89,012 60	100 00	3,574,772,20 1,123,33
63	a Income from other sources			29,069,06					18,750 00	$\begin{array}{c} 44,207\ 70\\ 20,179\ 17\\ 23,591\ 83\end{array}$	12 60		312,826 26
1	Income from lease		105,75000	$853, 259 \ 92 \\ 75,000 \ 00$	164,560	16, 113 25 78, 181 46 225, 455 14	125,000 00	1,224.85	206, 100-00 51, 460-20 5, 937-04		89,000 00	100 00	3,231,946 00 1,123 33
	NAME OF COMPANY.		9 Chicago & Alton-(1) 10 Joilet & Chicago 11 Mississippi River Bridge	14 Chrougo & Dasvert Intruots- 15 Chroad & Western Indiana, 16 Evansville, Terre Haute & Chicago	17 Chicago & Grand Trunk-(I) 18Grand Trunk Junction	25 (Intege, Buringion & Guney-(I) 26 Galesburg & Northern 27 Illinois Valley & Northern 28 St. Louis, Rock Island & Chicago	34 Chicago, Rock Island & Facilie (1) 35 Peoria & Bureau Valley	a) Currenter of Linear	48 Elgin, Joilet & Eastern	55 Illinois Central—(1) 56 Chicago Havana & Western 62 Rantoul 63 South Chicago	78 M.e.ingan Contral—(1) 79 Joiet & Northern Indiana 88 New York. (Chicago & St. Lonis—(1)	81 Chicago & State Line	901 Phitsburgh, Pf. Wayne & Chicago

			103210233
œ	Net	income	\$930 86 2.001 42 94,679 98 1,524 41 307,908 09 307,908 09 53,607,444 23
t-	ME.	Total deduc- tions from income	\$29, 102 00 15, 570 00 16, 572 50, 000 00 46, 415 78 10, 000 00 369, 695 60 53, 232, 786 22 53, 232, 786 22
9	FROM INCO	Other deduc- tions	\$5,000 00 23,910 11 54,665 60 \$296,803 06
20	DEDUCTIONS FROM INCOME.	Intereston funded debt.	\$29,100,00 15,920,00 \$1,920,00 50,920,00 50,900,00 10,000,00 314,930,00 314,930,00 \$22,904,360,58
4	A	Salaries and maintenance of organiza- tion	\$3,617 25 505 67 100 00 100 00 \$31,622 58
e	Tot	al income	\$30,032 \$6 \$2 00 157,901 42 \$3,017 25 50,000 00 17,940 19 \$56.67 10,000 19 \$56.67 10,000 19 \$56.67 10,000 58 \$1,022 58 \$66,799,277 69 \$31,622 58
27		ome from other ources	\$32 86 50 62 56 66 46 66 127,006 32 \$607,607 57
1	Inc	ome from lease Froad	
		NAME OF COMPANY.	98       St. Louis, Alton & Terre Haute-(1)       9         99       Belleville & Carondelet.       9         900       Belleville & Carondelet.       9         910       Belleville & Sudorado innois.       9         910       Belleville & Sudorado innois.       1         910       Belleville & Sudorado innois.       1         910       Belleville & Southern Illinois.       1         910       Belleville & Southern Minois.       1         910       St. Louis & Pladueth.       1         910       St. Louis & Shawneelown.       1         910       St. Louis, Vandalla & Terre Haute.       1         910       St. Louis, Vandalla & Terre Haute.       1

(1) Inserted to show relation of roads following.

Table XVII—Continued.

			1	69112 6111	122	388	863	<b>4</b> 21	8288	882	82	865
	17	Defi	cit for year end- g June 30, 1890			\$11,063 80		15,312.96	80,792 30 29,820 83			5,026 67
	16	Surren	plus for year dingJune30,1890		\$122,410 50 1 831 40	· · · · · · · · · · · · · · · · · · ·	1,224 85	26,500 60		13,591 83 8 012 60	100 00	441,342 40
	15	Tota fro	al payments om net income	\$33,000_00	150,000 00	135,000 00				000 000		2,210,146 00
	14	Otl fro	her payments om net income	\$12,000.00								
	13		Rate per cent .		÷	: :	÷	::		÷		~
	15	DIVIDENDS DECLARED.	Preferred stock									\$860,146 00
	11	DS I	Rate per cent .	14	3	6	:	::		: 00		2
	10	DIVIDEN	Common stock	\$105,000 00 00 21,000 00	150,000 00	135,000 00				00 000 16		1,380,000 00
	6	Net	deficit					\$15,312.96	80, 792 30 29, 820 83			5,026 67
<b>4</b>			NAME OF COMPANY.	Alton Chie Ippi F	4 Chicago & Eastern Illinois–(1) Chicago & Western Indiana.	Chicago, Rock Is Peoria & Bur	Chicago, St. Lou Englewood ( Flain Ioliat & F		Illinois Central- Chicago, Hav Rantoul	South Chicag Michigan Centra	New	90 Pritsburgh Ft. Wayne & Chicago 10 Pritsburgh Ft. Wayne & Chicago 11 South Chicago & Southern
_{	) R.	R.				⊣က က် ဂိ		4 4 X	10 10 G	01-1	• 00 00	ယတေရာ

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Table XVII-Continued.

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			$ 98\\ 100\\ 108\\ 108\\ 109\\ 109\\ 109\\ 109\\ 109\\ 109\\ 100\\ 100$
17	Defl in	cit for year end- g June 30, 1890	\$142,016 56
16	Surj	plus for year ding June 30,1890	\$930 86 \$2,001 42 2,001 42 1,524 41 307,208 09 \$928,924 53
15	· Tota fro	al payments omnet income	\$92,437.50 \$92,437.50 \$92,671,583.50
14	Ot] fro	her payments om net income	\$12,000 00
13		Rate per cent .	77%
12	DIVIDENDS DECLARED.	Preferred stock	\$92,437 50 \$952,583 50
11	DS ]	Rate per cent .	
10	DIVIDEN	Common stock	81,815,000 00
6	Net	defleit	\$130,952.76
		NAME OF COMPANY.	98       St. Iouis, Atton & Terre Haute-(1)         99       Belleville & Garondelet.         100       Belleville & Suthern Illinois.         101       Belleville & Suthern Illinois.         103       Belleville & Suthern Illinois.         104       Belleville & Suthern Illinois.         105       Belleville & Suthern Illinois.         108       Trere Haute & Indianapolis-(1).         109       St. Louis, Vandalia & Terre Haute.         109       St. Louis, Vandalia & Terre Haute.

(1) Inserted to show relation of roads following.

Table XVII-Continued.

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# LIST OF RAILROAD OFFICIALS.

# ATCHISON, TOPEKA & SANTA FE RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board President	Allen Manvel	Chicago, Ill
Assistant to President. Vice-President, 1st. Vice-President. 2d	J. D. Springer J. W. Reinhart A. A. Robinson	Boston, Mass
Assistant Treasurer Assistant Secretary	Geo. L. Goodwin	Boston, Mass
General Solicitor. General Counsel. Comptroller Assistant General Auditor. Auditor.	Jno. J. McCook	New York, N. Y.
Auditor. Freight and Traffic Manager. Assistant Freight and Traffic Manager.	J. A. Hanley	Chicago, Ill
Assistant General Freight Agent Assistant General Freight Agent	F. C. Gay	Topeka, Kas
Assistant General Freight Agent	O. H. Brown	6 6 6 6
General Ticket Agent. General Baggage Agent. Superintendent of Telegraph	Jno. J. Bvrne	Chicago, Ill Topeka, Kan
Land Commissioner	Jas. E. Frost	٤.

# CHICAGO, SANTA FE & CALIFORNIA RAILWAY COMPANY.

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Title.	Name.	Location of Office.
President Ist Vice-Presid nt Secretary and Treasurer. Assistant Treasurer. General Solicitor. Comptroller General Auditor. Assistant jeneral Freight Agent Assistant jeneral Passenger Agent General Superintendent.	Geo. R. Peck. J. P. Whitehead. J. W. Reinhart. S.L. Crim. J. G. Miller. J. J. Byrne	Topeka, Kas Boston, Mass Chicago, Ill

# ATCHISON, TOPEKA & SANTA FE RAILROAD COMPANY IN CHICAGO.

#### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President Secretary and Treasurer. Assistant Treasurer. Comptroller. General Auditor. Acting Auditor.	A. Manvel. S. B. French. D. L. Gallup C. S. Tuckerman. J. P. Whitehead. J. W. Reinhart. S. L. Crim.	Chicago, Ill Boston, Mass Chicago, Ill

# THE MISSISSIPPI RIVER RAILROAD AND TOLL BRIDGE COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President Secretary Treasurer Assistant Treasurer Assistant Secretary Comptroller Auditor General Acting Auditor Chief Engineer	A. Manvel. D. L. Gallup. D. L. Gallup. G. L. Goodwin. C. S. Tuckerman. J. P. Whitehead. J. W. Reinhart. S. L. Crim. A. A. Robinson.	Chicago, Ill Boston, Mass ć ć Chicago, Ill Topeka, Kas

### THE BALTIMORE & OHIO RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
Attorney or General Counsel. Auditor, General. General Manager. Chief Engineer. Trafis Manager. General Freight Agent. General Passenger Agent. Assistant General Passenger Agent. Division Superintendent. Superintendent of Telegraph. General Laggage Agent. Agent in Illinois, for transfer of stock.	W. i. Thelin J. T. O'Dell. H. T. Douglas. Frank Harriott. C. S. Wright. C. O. Seull	Pittsburgh, Pa Baltimore, Md.

# BALTIMORE & OHIO & CHICAGO RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President	Orland Smith.	Baltimore, Md
Secretary and Treasurer	P. C. Sneed	Chicago, Ill

## BELT RAILWAY CO. OF CHICAGO.

#### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board President Vice-President. Secretary Treasurer General Solicitor Auditor General Manager.	B. Thomas. M. J. Clark . J. E. Murphy. Chas. M. Osborn. M. J. Clark.	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

# CENTRALIA & CHESTER RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President Secretary Treasurer Auditor General Manager General Freight Agent General Passenger Agent Agent in Illinois, for transfer of stock	C. E. Smith S. L. Dwight. J. M. McCutcheon. R. H. Rosborough. J. M. McCutcheon	New York, N. Y Centralia, Ill. Sparta, Ill

# CHICAGO & ALTON RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President Secretary and Treasurer General Solicitor. Auditor General. General Manager. Chief Engineer General Freight Agent General Passenger Agent Division Superintendent Superintendent of Telegraph Superintendent of Transportation General Baggae Agent. Agent in Illinois, for transfer of stock.	J. C. McMullin C. H. Foster. Wm. Brown. Chauncey Kelsey. C. H. Chappell K. F. Booth. H. H. Courtright. James Charlton. A. M. Richards. M. K. Morley. H. V. Miller. T. M. Bates. C. Huntington.	Bloomington, Ill Bloomington, Ill Bloomington, Ill Chicago, Ill

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# JOLIET & CHICAGO RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President Secretary Agent in Illinois for transfer of stock	John B. Drake Chas. H. Foster Chas. H. Foster, Secretary	Chicago, Ill.

#### MISSISSIPPI RIVER BRIDGE.

#### OFFICERS.

Title.	Name.	Location of Office.
President Secretary and Treasurer Agent in Illinois for transfer of stock	James C. McMullin Chas. H. Foster Chas. H. Foster	Chicago, Ill.

# CHICAGO & ATLANTIC RAILWAY COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
Receiver Attorneys or General Counsel Assistant Attorney or General Counsel. Auditor General Agent for Receiver General Preight Agent General Passenger Agent General Ticket Agent Superintendent Master Mechanic Paymaster General Baggage Agent	Baker & Daniels. John A. Henry J. D. Kershaw G. G. Coehran. F. C. McDonald C. McDonald C. L. McDonald	Indianapolis, Ind Chicago, Ill.

# CHICAGO & CALUMET TERMINAL RAILWAY COMPANY.

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Title.	Name.	Location of Office.
President Secretary Treasurer	David S. Wegg Henry S. Boutell David S. Wegg	Chicago, Ill.

# CHICAGO & EASTERN ILLINOIS RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board. President and General Manager. Vice-President. 2d Vice-President and Treasurer. Secretary and Auditor. Assistant Treasurer. Cashier and Paymaster. Chief Engineer and Sup't of Maintenance General S dicitor. General S dicitor. General Freight Agent. Ass't General Freight Agent. Ass't General Freight Agent. General Superintendent. Superintendent of Transportation. General Master Mechanic	H. H. Porter. Geo. W. Saul. O. S. Lyford. C. W. Hillard. H. A. Rubidge. A. R. Flower. A. S. Cullum. H. F. Baldwin. W. H. Lyford. G. J. Grammer. F. V. Davis. Wm. Hill. Chas. L. Stone. H. E. Felton. D. R. Paterson. T. W. Burrows. Allen Cooke.	Chicago, Ill. 
Purchasing Agent. Agent in Illinois, for transfer of stock	Robert Spencer. H. A. Rubidge, Sec'y	Chicago, Ill

# CHICAGO & WESTERN INDIANA RAILROAD COMPANY.

#### OFFICERS.

Location of Office.
Chicago, Ill
4 4 4 4 4 4 4 4 4 4 4 4

# EVANSVILLE, TERRE HAUTE & CHICAGO RAILWAY COMPANY.

Title.	Name.	Location of Office.
President Secretary Treasurer	C. W. Hillard S. H. Spooner. C. W. Hillard	Chicago, Ill

# CHICAGO & GRAND TRUNK RAILWAY COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board. President Vice-President Secretary. Treasurer. Chief Engineer General Solicitor. General Manager. Traffic Manager. Traffic Manager. General Passenger and Ticket Agent Superintendent. Ass't Superintendent. Mechanical Superintendent. General Storekeeper. General Storekeeper. General Baggage Agent Agent nu Illinois, for transfer of stock	Sir Joseph Hickson. L. J. Seargeant Charles Percy. James H. Muir. Geo. Masson E. W. Meddaugh. W. J. Spicer. Geo. R. Reeve. David Brown. W. E. Davis. A. B. Atwater A. B. Atwater Herbert Roberts. Jno. S. Lorimer. J. E. Quick.	Detroit, Mich Chicago, Ill Battle Creek, Mich. Detroit, Mich Detroit, Mich

# GRAND TRUNK JUNCTION RAILWAY COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board. President Vice-President Secretary Treasurer General Solicitor. General Manager. Agent in Illinois, for transfer of stock	F. A. Howe. Charles Percy.	Chicago, Ill Montreal, Prov. Q. Detroit, Mich

# CHICAGO & ILLINOIS SOUTHERN RAILROAD COMPANY.

Title.	Name.	Location of office.
President Vice-Pre-ident. Secretary. Treasurer.	John S. Hannah Wm. P. Harvey Geo. M. Patch Geo. S. McReynolds	Chicago, Ill. Baltimore, Md Chicago, Ill

# CHICAGO & IOWA RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of office.
President First Vice-President Second Vice President	F. H. Head J. C. Peasley	Chicago, Ill.
First Vice-President. Second Vice-President Secretary Treasurer Assistant Treasurer	L. O. Goddard. J. C. Peasley F. Clark	fi Rochelle, Ill
Auditor, General	M. D. Hatnaway Jno. L. Lathrop F. Clark	Chicago, Ill.
General Freight and Passenger Agent General Superintendent. General Baggage Agent Agent in Illinois, for transfer of stock	H. D. Judson. E. A. Sadd. L. O. Goddard	Chicago, Ill.

# CHICAGO & NORTHWESTERN RAILWAY COMPANY.

Chief Engineer       John E. Blunt.       Chicago, Ill.         General Counsel       William C. Goudy       General Attorney.         Auditor       Joseph B. Redfield.       General Freight Agent.         John M. Whitman       John M. Whitman       General Freight Agent.	Title.	Name.	Location of Office.
Second Vice-President.       Marshall M. Kirkman.       Chicago, Ill.         Third Vice-President.       William H. Newman.       New York, N. Y         Secretary.       Martin L. Sykes.       New York, N. Y         Assistant Treasurers       S. O. Howe and J. B. Redfield       New York, N. Y         Chief Engineer       John E. Blunt.       Chicago, Ill.         General Counsel       William C. Goudy.       Chicago, Ill.         General Attorney.       Joseph B. Redfield.       Chicago, Ill.         General Manager       John M. Whitman.       Chicago, Ill.	Chairman of the Board	Albert Keep	Chicago, Ill
Secretary.       Martin L. Sykes       New York, N. Y         Treasurer.       Martin L. Sykes       New York, N. Y         Assistant Treasurers       S. O. Howe and J. B. Redfield       New York, N. Y         Chief Engineer       John E. Blunt.       Chicago, II         General Counsel       William C. Goudy       Chicago, III.         General Attorney.       Joseph B. Redfield       Chicago, II         General Manager       John M. Whitman       Chicago, II         General Freight Agent.       Hiram R. Mecpulough.       Chicago, II	Vice-President.	Marvin Hugnitt Martin L. Sykes	New York, N. Y
Assistant Treasurers       S. O. Howe and J. B. Redfield New York, N. J.         Chief Engineer       John E. Blunt         General Counsel       William C. Goudy         General Attorney       William K. Keep         Auditor       Joseph B. Redfield         General Freight Agent       Hiram R. Meccullough	Secretary.	Martin L. Sykes	New York N Y
Chief Engineer       John E. Blunt       and Chicago, I         General Counsel       William C. Goudy       Chicago, III         General Attorney       William B. Keep       Anditor         General Manager       Joseph B. Redfield       General Manager	Treasurer. Assistant Treasurers	Martin L. Sykes S. O. Howe and J. B. Redfield	New York, N. Y.
General Attorney	Chief Engineer	John E. Blunt	and Chicago, Ill., Chicago, Ill
General Manager	General Attorney	William B. Keep.	
General Passenger Agent William A Thrall	General Manager	John M. Whitman	*******
General Ticket Agent	General Passenger Agent General Ticket Agent	William A. Thrall William A. Thrall	
Division Superintendent, in Illinois William A. Gardner	Division Superintendent, in Illinois	William A. Gardner	
Superintendent of Telegraph	Superintendent of Telegraph	Geo. H. Thayer	
Land Commissioner	Land Commissioner	Charles E. Simmons	

# CHICAGO & NORTHERN PACIFIC RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President Secretary. Treasurer Assistant Treasurer. Cabier Chief Engineer. General Solicitor Attorney . Auditor General Manager. Traffic Manager. Traffic Manager. General Superintendent. Acent in Illinois for transfer of stock .	James B. Williams. Henry S. Boutell. Geo. S. Barter. Conway W. Hillman. William E. Dunscombe Willis S. Jones. Henry S. Boutell. Kemper K. Knapp. James A. Barker Thomas J. Hyman. Andrew A. Allen. Henry A. Hawley. John T. McBride	New York, N. Y. Chicago, Ill Chicago, Ill. Chicago, Ill. St. Paul, Minn Chicago, Ill.

# CHICAGO & OHIO RIVER RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board President Vice-President	Albert N. Parlin	Boston, Mass
Vice-President Secretary and Treasurer General Solicitor	Austin Corbin E. R. Reynolds	New York, N. Y
Auditor	J. L. Hamar.	Kansas, Ill.
General Manager General Freight Agent General Passenger Agent	J. D. Livingston	Kansas, I!!
Ass't General Ticket Agent General Superintendent	J. D. Livingston Wm. A. Bell	4.4 
Superintendent of Telegraph	C. E. Achuff	

### CHICAGO, BURLINGTON & NORTHERN RAILROAD COMPANY.

Chairman of the Board	Title.	Name.	Location of Office.
Assistant Superintendent.       D. Cunningham.       LaCrosse, Wis.         Assistant Superintendent.       J. C. Howard.       Minneapolis, Minn.         Superintendent of Telegraph.       P. H. Hough       LaCrosse, Wis.         General Baggage Agent.       E. A. Sadd.       Chicago, Ill.	Secretary Treasurer	F. B. Beaumont. J. Murray Forbes. F. Dabney. S. D. Purdy. Yound & Lightner. N. B. Hinkley. W. J. C. Kenyon. J. C. Kenyon. J. R. Hastings. D. Cunningham. J. C. Howard. P. H. Hough.	Boston, Mass. St. Paul, Minn. LaCrosse, Wis. St. Paul, Minn. St. Paul, Minn. LaCrosse, Wis. Minneapolis, Minn. LaCrosse, Wis.

### CHICAGO, BURLINGTON & QUINCY RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board	J. M. Forbes	Boston, Mass
President	C. E. Perkins	Burlington, Ia
Vice-President, 1st Vice-President, 2d	Geo B Harris	Chicago, In
Secretary	T S Howland	Boston, Mass
Treasurer	J. C. Peasley	Chicago, Ill
Assistant Treasurer Cashier, Acting	E. E. Pratt	Boston, Mass
Cashier, Acting Chief Engineer	W. J. Fablan.	
Attorney at Chicago	C M Dawes	
Attorney at Galesburg	O. F. Price.	Galesburg, Ill
Comptroller, Acting	W. J. Ladd	Boston, Mass
Auditor, General	J.L. Lathrop	Chicago, Ill
Ass't General Auditor	C. A. turgis	
General Manager	G. D. Harris Thos Miller	£ 6 · · · · · · · · ·
General Freight Agent General Passenger and Ticket Agent	P. S. Eustis.	6.6
Ass't General Ticket and Passenger Agt. Ass't General Freight Agents	L. Wakeley	**
	Hamblin	
General Superintendent	J. D. Besler	
Divi-ion Superintendent Division Superintendent	L. E. Johnson	Aurora, Ill
Division Superintendent	W. P. Threen	Galesburg, Ill Beardstown, Ill
Division Superintendent General Supt. of Illinois Lines	F C Rice	Galesburg, Ill
Sunt of Freight Terminals at Chicago.	C. G. Wilson	Chicago, Ill.
Superintendent of Telegraph General Baggage Agent Land Commissioner	W. W. Ni hols	**
General Baggage Agent	E. A. Sadd	
Land Commissioner.	W. W. Baldwin.	Burlington, Ia
Agent in Illinois, for transfer of stock	н. w. weiss	Chicago, Ill

## GALESBURG & RIO RAILROAD COMPANY.

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#### OFFICERS.

Title.	Name.	Location of Office.
President Secretary	J. L. Lathrop L. O. Goddard	Chicago, Ill

# ILLINOIS VALLEY & NORTHERN RAILROAD COMPANY.

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#### OFFICERS.

Title.	Name.	Location of Office.
President	J. L. Lathrop	Chicago, Ill
Vice-President	J. C. Osgood	New York, N. Y
Secretary and Treasurer	H. W. Weiss.	Chicago, Ill

### ST. LOUIS, ROCK ISLAND & CHICAGO RAILROAD COM-PANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President Secretary and Treasurer	J. N. A. Griswold J. L. Lathrop L. O. Goddard	New York, N. Y Chicago, Ill

# CHICAGO, MILWAUKEE & ST. PAUL RAILWAY COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President, 1st Vice-President, 3d President, Assistant to Secretary Treasurer Assistant Treasurer Cashier General Solicitor General Counsel. Comptroller. Auditor, General Auditor General Manager General Manager General Freight Agent General Freight Agent General Fassenger Agent General Taket Agent General Superintendent. Superin endent of Telegraph General Baggage Agent Land Commissioner	Frank S. Bond.         E. P. Ripley.         J. F. Tucker         P. M. Myers         F. G. Ranney.         Jno. McNab.         D. J. Whittemore         J. Y. Fish.         Jno. W. Cary.         E. O. Sewall         J. P. Whaling.         W. N. D. Winne         A. J. Earling         A. C. Bird.         J. H. Hiland         A. V. H. Carpenter.         A. V. H. Carpenter.         W. G. Collins.         W. J. Fry.         W. D. Carrick	New York, N. Y. Chicago, Ill. Milwaukee, Wis. Chicago, Ill.

### CHICAGO, PEORIA & ST. LOUIS RAILWAY COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President Secretary and Treasurer Cashier. Attorney or General Counsel Auditor Assistant General Freight Agent. General Freight Agent General Fassenger Agent Superintendent Agent in Illinois, for transfer of stock	Isaac L. Morrison. Marcus Hook Francis Hook Isaac L. Morrison. Marcus Hook Edward A. Nixon W. C. Alvord Weston W. Kent David W. Rider	Peoria, Ill Jacksonville, Ill

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# CHICAGO, ROCK ISLAND & PACIFIC RAILWAY COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
	]	
President	R. R. Cable	Chicago, Ill
Vice-President, 1st	Benj. Brewster	New York, N. Y Chicago, Ill
Vice-President, 2d	W. G. Purdy	Unicago, III
Vice-President, 3d.,	W G Durdy	
Secretary and Treasurer Ass't Treasurers and Ass't Secretaries	I B Cowing I F Philling	New York, N. Y.,
ASSI LICASULOIS and ASSI Scoletarios	0. II. COWING, I. I. I IIIIPS	and Chicago, Ill.
Cashier	F. E. Havne	Chicago, Ill.
Assistant to President	A. Kimball	Davenport, Ia
General Counsel	Thos. F. Withrow	Chicago, Ill
General Attorney	Thos. S. Wright	
General Attorney	M. A. Low	Topeka, Kas
Auditor	F. W. Porter	Chicago, Ill
General Manager Traffic Manager	W M Sage	
General Freight Agent	J M Johnson	
Assistant General Freight Agent	H Gower	
General Passenger and Ticket Agent	John Sebastian	
Ass't Gen'l Passenger and Ticket Agent.	S. F. Boyd	Topeka, Kas
Assistant General Passenger Agent	Geo. L. Rhodes	Chicago, Ill
General Superintendent	H. F. Royce	
General Superintendent	W. 1. Allen	Topeka, Kas
Division Superintendent	R. H. Chamberlain	Chicago, Ill.
Division Superintendent	John Givin.	Des Moines, Ia Trenton, Mo
Division Superintendent	C N Gilmore	Des Moines, Ia
Division Superintendent Division Superintendent	W H Stillwell	Horton, Kan
Division Superintendent	W J Lawrence	Colorado Springs
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Division Superintendent	C. H. Hubbell.	Herington Kas
General Baggage Agent	J. D. Marston	Chicago, III
Land Commissioner.	J. L. Drew	Davenport, Ja
Agent in Illinois, for transfer of stock	W. G. Purdy	Chicago, 111

# PEORIA & BUREAU VALLEY RAILROAD COMPANY.

STATISTICS.

#### OFFICERS.

Title.	Name.	Location of Office.
President	Jas. R. Cowing.	New York, N.Y
Secretary	I. F. Phillips	Chicago, Ill
Treasurer	Wm. A. Nash	New York, N.Y
Agent in Illinois, for transfer of stock	I. F. Phillips.	Chicago, Ill

# CHICAGO, ST. LOUIS & PITTSBURGH RAILROAD COM-PANY.

### OFFICERS.

Vice-President 3d.       Thos. D. Messler.         Secretary       S. B. Liggett.         Treasurer.       Jno. E. Davidson.         Assistant Treasurer.       M. C. Spencer.         Chief Engineer.       M. J. Beck*r.         General Counsel       J. T. Brooks         Comptroller.       J. Brooks         Auditor Fre ght Receipts.       J. P. Farley.         Auditor Fre ght Receipts.       J. P. Farley.         General Manager.       Joseph Wood         General Supt.       K. M. Mullins.         General Freight Agent.       Wm. Stewart.         Assistant.       D. F. McCabe.         Counting Agent.       D. F. McCabe.         Columbus, O.       General Passenger and Ticket Agent.	Title.	Name.	Location of Office.
General Baggage Agent	President. Vice-President, 1st. Vice-President, 2d. Vice-President 3d. Secretary Treasurer. Assistant Treasurer. Chief Engineer. General Counsel. Assistant Counsel. Comptroller. Auditor Freght Receipts. Auditor Freght Receipts. General Manager. Auditor Disbursements. Gen'l Supt. Transportation. Purchasing Agent. General Freight Agent. Ass't GenZi Freight Agent. Chief Ass't General Passenger and Ticket Agent. Chief Ass't General Passenger and Ticket Agent. General Superintendent. Division Superintendent. Division Superintendent. Division Superintendent.	Geo. B. Roberts. J. N. McCullough. James McCrea Thos. D. Messler. S. B. Liggett. Jno. E. Davidson. M. C. Spencer. M. J. Becker. J. T. Brooks. J. J. Brooks. J. J. Brooks. J. J. Brooks. J. D. Messler. A. McElvey Joseph Wood. James Instan. E. B. Taylor. Wm. Mullins. Wm. Mullins. Wm. Stewart. D. F. McCabe. E. A. Ford. Frank Van Dusen. J. F. Miller. C. M. Bennett. F. G. Darlington. W. B. See s. E. C. Bradley	Philadelphia, Pa Pittsburgh, Pa """"""""""""""""""""""""""""""""""

# ENGLEWOOD CONNECTING RAILWAY COMPANY.

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Title.	Name.	Location of Office.
President Sceretary Treasurer	Thos. D. Messler S. B. Liggett Jno. E. Davidson	Pittsburgh, Pa

### CHICAGO, ST. PAUL & KANSAS CITY RAILWAY COMPANY.

#### Title. Name. Location of Office. President A. B. Stickney. Vice-President and Transfer Agent Wm. Lewis Boyle Vice-President C. W. Benson Sccretary M. C. Woodruff Treasurer W. B. Bend Assistant Treasurer and Secretary Jno, L. Platt Auditor, General Jno, L. Platt Auditor, General M. C. Healion General Manager H. Fernstrom General Freight Agent F. H. Tibbitts General Passenger Agent W. R. Busenbark General Superintendent J. M. G. Shields Division Superintendent J. D. Ferrell Assistant General Ticket Agent J. D. Ferrell Assistant General Ticket Agent J. D. Ferrell Assistant General Ticket Agent J. D. Ferrell General Superintendent J. D. Ferrell Assistant General Ticket Agent C. A. Cairns Superintendent J. Berlingett General Baggage Agent Jon Colley Land Commissioner J. C. Ford St. Paul, Minn..... New York, N. Y.... St. Paul, Minn.... Dubuque, Iowa.... St. Paul, Minn..... ..... 6.6 6.6 . . . . . . 6.6 ..... Chicago, Ill..... 66 66 . . St. Paul, Minn..... Dubuque. Iowa .... Chicago, Ill..... DesMoines, Iowa ... Chicago, Ill...... St. Paul. Minn.....

#### OFFICERS.

### CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS RAIL-WAY COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President. Vice-President. Secretary Treasurer. Chief Engineer. General Solicitor, Att'y or Gen'l Counsel Auditor General Manager Assistant General Manager. Traffic Manager General Freight Agent. General Freight Agent. General Passenger Agent. General Passenger Agent. General Superintendent Division Superintendent	M. E. Ingalls. J. D. Layng. E. F. Osborn. G. S. Russell. W. C. Irwin. J. T. Dye (Ind. & Ill.). H. H. Poppleton (Ohio). P. A. Hewltt. W. M. Green. J. A. Barnard. O. G. Murray. E. S. Washburne. Edgar Hill. D. B. Martin. John Egan. E. A. Peek. J. W. Simmons. C. J. Stedwell. J. O. VanWinkle. G. W. Bender. A. G. Wells.	Cincinnati, Ohio New York, N.Y Cincinnati, Ohio Cleveland, Ohio Cleveland, Ohio Cincinnati, Ohio Cincinnati, Ohio Cincinnati, Ohio Indianapolis, Ind Cincinnati, Ohio Indianapolis, Ind Cincinnati, Ohio Cincinnati, Ohio
General Baggage Agent	D. M. Calkins	Cleveland, Ohio

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# PEORIA & EASTERN RAILWAY COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President Secretary and Treasurer	J. A. Barnard W. W. Lynn	Indianapolis, Ind

### KANKAKEE & SENECA RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President Secretary Treasurer Auditor Agent in Illinois, for transfer of stock	T. P. Bonfield. E. F. O-born. G. S. Russell. P. A. Hewitt T. P. Bonfield.	Kankakee, Ill Cincinnati, O Cleveland, O Kankakee, Ill

The road is operated for this company by the C. C. C. & St. L. Ry. Co., and its officers and heads of departments are in charge.

# DEPUE, LADD & EASTERN RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President Vice President Secretary and Treasurer	Albert L. Sweet Wm. S. Cherry. Thomas A. Lemmon	Chicago, Ill

### EAST ST. LOUIS & CARONDELET RAILWAY COMPANY.

Title.	Name.	Location of Office.
President. Secretary Treasurer Cashier General Superintendent. Assistant Superintendent.	S. B. Liggett. John E. Davidson Geo. K. Thomas	East St. Louis, Ill

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# EAST ST. LOUIS CONNECTING RAILWAY COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President Secretary Treasurer General Manager General Freight Agent General Agent Division Superintendent Agent in Illinois, for transfer of stock	A. C. Church. B. C. Church. Isaac A. Smith. C. H. Sharman. W. S. Hodges. R. N. Bothner. Chas. A. Haines	East St. Louis, Ill.

# ELECTRIC CITY & ILLINOIS RAILWAY COMPANY.

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#### OFFICERS.

Title.	Name.	Location of Office.
President. Vice-President. Secretary. Treasurer. Assistant Secretary. Chief Enzineer General Manager Agent in Illinois, for transfer of stock.	L. M. Rumsey J. H. Overall	St Louis Mo

# ELGIN, JOLIET & EASTERN RAILWAY COMPANY.

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Title.	Name.	Location of Office.
President Vice-President. Secretary and Treasurer General Solicitor. Auditor Traffic Manager. Superintendent Agent in Illinois, for transfer of stock	F. D. Raymond Arthur D. Wheeler	

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### GARDNER, COAL CITY & NORTHERN RAILWAY COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President Secretary Treasurer Attorneys or General Counsel. Auditor	Norman Williams. Samuel Spencer Arthur D. Wheeler F. D. Raymond. Williams, Holt & Wheeler F. W. Sutton	Chicago, Ill New York, N. Y Chicago, Ill.

### WAUKEGAN & SOUTHWESTERN RAILWAY COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Secretary. Treasurer Attornevs or Counsel Auditor	Chas. S. Holt Arthur D. Wheeler F. D. Raymond Williams, Holt & Wheeler F. W. Sutton	Chicago, Ill

# FULTON COUNTY NARROW GAUGE RAILWAY COMPANY.

Title.	Name.	Location of Office.
President Vice-President Secretary. Treasurer Auditor General Manager. Gen'l Freight, Passenger and Ticket Agt. Superintendent	S. H. Mallory. Henry Phelps. D. J. Thayer. F. R. Crocker Jno. D. Temple. S. H. Mallory. A. C. Atherton A. C. Atherton	Lewistown, Ili Chariton, Iowa Lewistown, Ill. Chariton, Iowa Lewistown, Ill.

### GRAND TOWER & CARBONDALE RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President. Secretary Treasurer. Attorney or General Counsel Auditor Traffice Manager. Superintendent.	E. A. Hitchcock. O. L. Garrison J. D. Peters O. L. Garrison W. W. Barr. J. P. Foster Robt. Bell. J. D. Peters	St. Louiș, Mo Murphysboro, III St. Louis, Mo Carbondale, III St. Louiș, Mo Murphysboro, III

### GRAND TOWER & CAPE GIRARDEAU RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President. Vice-President Secretary Treasurer. Counsel Auditor Superintendent	W. W. Barr. J. D. Peters.	Carbondale, Ill Murphysboro, Ill

# ILLINOIS CENTRAL RAILROAD COMPANY.

Title.	Name.	Location of Office.
President Vice-President. Secretary Treasurer Assistant Treasurer	E. H. Harriman. A. G. Hackstaff. H. De Wolf. E. T. H. Gibson.	New York, N. Y Chicago, Ill New York, N. Y
Chief Engineer General Counsel. General Solicitor.	R. S. Charles. L. T. Moore B. F. Ayer Jas. Fentress.	New Orleans, La Chicago, Ill
Comptroller	J. F. Tibus. C. A. Beck A. D. Joslin. Isaac Anderson.	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Traffic Manager. Assistant Traffic Manager. General Freight Agent. General Passenger Agent. Assistant General Freight Agent. General Superintendent.	M. C. Markham. Horace Tucker. A. H. Hanson. W. <u>E</u> . Keepers	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
General Superintendent. Division Superintendent. Acting Division Superintendent. Acting Division Superintendent. Division Superintendent. Sup't of Telegraph (Northern lines). Superintendent of Car Service. Superintendent of Machinery. General Baggage Agent. Land Commissioner. Agent in Illinois, for transfer of stock.	J. G. Hardigan. J. C. Jacobs. D. S. Bailey. G. W. Hatter. H. L. Frisbie.	Cairo, Ill. Amboy.Ill. Bockford, Ill. Springfield, Ill. Pontiac. Ill.
Superintendent of Machinery lines) Superintendent of Car Service Superintendent of Machinery General Baggage Agent Land Commissioner	C. S. Jones. E. M. Horton H. Schlacks H. A. Winker L. P. Morehouse.	Chicago, Ill
Agent in Illinois, for transfer of stock	John Dunn, Assistant Sec'y	

# CHICAGO, HAVANA & WESTERN RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Vicé-President Secretary Treasurer Comptroller	Stuyvesant Fish. E. H. Harriman. W. G. Bruen. Hénry De Wolf J. C. Welling.	Chicago, Ill New York, N. Y Chicago, Ill

# CHICAGO, MADISON & NORTHERN RAILROAD COMPANY.

### OFFICERS.

Title,	Name.	Location of Office.
President Vice-President Secretary Treasurer Comptroller	Stuyvesant Fish E. H. Harriman W. G. Bruen Henry De Wolf J. C. Welling	Chicago, Ill New York, N. Y Chicago, Ill

# CHICAGO & SPRINGFIELD RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President Secretary Treasurer Comptroller	Stuyvesant Fish E. H. Harriman W. G. Bruen Henry De Wolf J. C. Welling	Chicago, Ill New York, N. Y Chicago, Ill

# KANKAKEE & SOUTHWESTERN RAILROAD COMPANY.

Titie.	Name.	Location of Office.
President Vice-President Secretary Treasurer Comptroller	Stuyvesant Fish F. H. Harriman W. G. Bruen Henry DeWolf. J. C. Welling	Chiengo, Ill New York, N. Y Chiengo, Il:

# RANTOUL RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President Secretary. Treasurer Comptroller	Stuyvesant Fish E. H. Harriman W. G. Bruen Henry DeWolf. J. C. Welling	Chicago, ll New York, N. Y Chicago, Ill

### SOUTH CHICAGO RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President Secretary Treasurer. Comptroller	Stuvvesant Fish E. H. Harriman W. G. Bruen Henry De Wolf J. C. Welling	Chicago, Ill New York, N. Y Chicago, Ill.

# INDIANA & ILLINOIS SOUTHERN RAILROAD COMPANY.

Title.	Name.	Location of Office.
President. Vice-President Secretary Treasurer Consulting Engineer, General Solicitor. Auditor. General Manager. General Freight, Passenger and Ticket Agent. Train Master Road Master. Master Mechanic.	M. B. Wilson A. B. Fitch. John S. Cooper. John T. Hays C. R. Hinkle. P. H. Blue F. E. Basler W. R. Battenfield. James Hoskins	Terre Haute, Ind Chicago, Ill. Sullivan, Ind
master mechanic	M. E. HOICHKISS	raiestine, III

### INDIANAPOLIS, DECATUR & WESTERN RAILWAY COM-PANY.

### OFFICERS.

Title.	Name.	Location of Office.
President. Secretary and Treasurer. General Solicitor. Auditor General Freight Agent General Treight Agent. Superintendent. General Baggage Agent.	Henry B. Hammond Thos. Batkins Robt. B. F. Pierce J. V. McNeal. Jno. S. Lazarus. Jno. S. Lazarus. Jno. S. Lazarus. L. A. Boyd. Jno. S. Lazarus.	New York, N. Y Indianapolis, Ind

# INDIANA, ILLINOIS & IOWA RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President. Vice-President. Secretary and Treasurer General Solcitor. Auditor General Manager. Gen'l Freight and Passenger Agent. Superintendent	F M. Drake Geo. H. Holt Jno. A. Drake H. K. Wheeler M. J. Hartnett. T. P. Shonts. C. W. Cook C. H. Smith.	Centerville, Ia New York, N. Y Chicago, Ill Kankakee, Ill. Chicago, Ill. Kankakee, Ill

# IOWA CENTRAL RAILWAY COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board President . Vice-President Secretary Treasurer . Local Treasurer. Local Treasurer. Chief Engineer'. General Solicitor Auditor . General Manager. Traffic Manager. Traffic Manager. Assistant General Passenger Agent . Assistant General Freight Agent . Superintendent of Telegraph	Russell Sage. H. J. Morse. Geo. R. Morse. E. H. Perkins. Geo. R. Morse. Seth Zug. G. E. Pruden. A. C. Daly. C. S. Benson C. H. Ackert. A. F. Banks. T. P. Barry. Jas. Mahoney. J. H. Redmon.	Marshalltown, Ia

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# LAKE ERIE & WESTERN RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board President Vice President. Secretary and Treasurer Assistant Treasurer Chief Engineer Attorney or General Counsel Assistant Attorney or General Counsel. Auditor General Manager. Traffic Manager. Assistant General Freight Agent. Assistant General Freight Agent. General Passenger Agent. General Ticket Agent General Superintendent. Master of Transportation and Superin- tendent of Telegraph	Calvin S. Brice Nelson Robinson. L. M. Schwan A. D. Thomas F. H. Perry W. E. Hackedorn F. S. Foote W. A. Wildhack Geo, L. Bradbury. H. C. Parker S. A. Weikel S. B. Sweet. C. F. Daly. D. S. Hill. O. W. Bell	Indianapolis, Ind

# LAKE SHORE & MICHIGAN SOUTHERN RAILWAY COM-PANY.

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Title.	Name.	Location of Office.
Chairman of the B ard President	John Newell	Cleveland Ohio
Vice-President Secretary and Treasurer Assistant Treasurer	E. D. Worcester E. D. Worcester	New York, N. Y
Local Treasurer	N. Bartlett	Cleveland, Ohio
Chief Engineer Attorney or General Counsel	G. H. Kimball Geo. C. Greene	
Assistant Attorney or General Counsel Auditor, General	O. G. Getyen-Danner Cyrus P. Leland	
General Manager General Freight Agent	John Newell John T. R. McKay	** ***
Assistant General Freight Agent Assistant General Passenger Agent General Passenger Agent	E. C. Luce	66 66 ⁶⁶ 66 66
General Ticket Agent	A. J. Smith	6.6 6.6 6.6 6.6
General Superintendent	Phineas P. Wright	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Division Superintendent Division Superintendent	C. B. Couch Thomas Flesher, Jr	· · · · · · · · · · · · · · · · · · ·
Division Superintendent Division Superintendent	A. G. Amsden	Toledo, Ohio Chicago, Ill
Division Superintendent Division Superintendent Division Superintendent	S. S. Hand	Detroit, Mich
General Baggage Agent	Wm. Kline	Toledo, Ohio
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# LOUISVILLE & NASHVILLE RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President, 2d Vice-President, 2d Vice-President, 3d Secretary Treasurer Assistant Treasurer Cashier Chief Attorney Comptroller Assistant Comptroller General Manager Chief Engineer Traffic Manager General Freight Agent Assistant General Freight Agent General Passenger Agent Assistant General Passenger Agent General Bagaga Agent	Milton H. Smith A. M. Quarrier E. B. Stahlman. J. H. Ellis Wm. W. Thompson. S. H. Edgar G. W. Proctor. Russe I Houston. Charles Haydon. J. G. Metcalfe R. Montfort S. R. Knott John M. Chlp P. J. McGovern C. P. Atmore. J. A. Boyd J. B. Browning	Louisville, Ky Nashville, Tenn Louisville, Ky 
Division Superintendent	D. F. DICKSON	Evansville, Ind

# SOUTHEAST & ST. LOUIS RAILWAY COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President. Secretary. Treasurer. Comptroller General Manager. Traffic Manager. General Superintendent.		

### LOUISVILLE, EVANSVILLE & ST. LOUIS CONSOLIDATED RAILROAD COMPANY.

Title.	Name.	Location of Office.
President Yice-President Secretary and Treasurer Chief Engineer Attorneys or General Counsel. Auditor General Manager General Traffic Manager General Traffic Manager General Passenger Agent General Freight Agent Superintendent of Transportation General Baggage Agent	Wm. Heilman. W. J. Lewis Ingleheart & Taylor E. B. Cooke. Geo. F. Evans G. J. Grammer J. S. Odiorne L. S. Parsons Geo. K. Lowell	New Albany, Ind Evansville, Ind Louisville, Ky Evansville, Ind Louisville, Ky New Albany, Ind

# LOUISVILLE, NEW ALBANY & CHICAGO RAILWAY COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President S cretary and Treasurer Assistant Treasurer and Secretary Chief Engineer General Solicitor Auditor General Manager General Manager General Preight Agent General Preight Agent Division Superintendent Division Superintendent Superintendent of Telegraph General Bagage Agent	<ul> <li>Geo, F. PostethWatte</li></ul>	New York, N. Y. Chicago, Ill.

# MICHIGAN CENTRAL RAILROAD COMPANY.

### OFFICERS.

President.H. B. Ledyard.Detroit, Mich.SceretaryE. D. Worcester.New York, N. Y.SceretaryE. D. Worcester.New York, N. Y.Cashier.John E. GriffithsDetroit, Mich.Chief Engineer.John E. GriffithsDetroit, Mich.General Counsel.Ashley Pond.Image: Conseler.General AttorneyHenry Russel.Image: Conseler.AnditorD. A. WatermanImage: Conseler.General Freight Agent.A. Mackay.Chicago, Ill.General Passenger and Ticket Agent.E. Hand.Image: Conseler.General Passenger and Ticket Agent.E. C. BrownDetroit, Mich.Assistant General Superintendent.E. C. BrownDetroit, Mich.Jivision Superintendent.C. B. Bush.Jackson, Mich.Division Superintendent.W. J. Martin.Bay City, Mi h.Division Superintendent.W. J. Martin.Bay City, Mi h.Division Superintendent.D. S. Sutherland.Detroit, Mich.	Title.	Name.	Location of Office.
Superintendent of Telegraph	President Vice-President Secretary Cashier Chief Engineer General Connsel General Attorney Auditor General Manager General Manager General Freight Agent General Freight Agent Assistant General Freight Agent Assistant General Preight Agent Assistant General Superintendent Division Superintendent Division Superintendent Division Superintendent Division Superintendent	H. B. Ledyard. E. D. Worcester. E. D. Worcester. Henry Pratt. John E. Griffiths. J. D. Hawks. Ashley Pond. Henry Russel D. A. Waterman. A. J. Burt. H. B. Ledyard. A. Mackay. B. E. Hand G. W. Ruggles. G. E. King. E. C. Brown. Robt. Miller. R. H. L. Hommedieu. C. B. Bush. W. J. Martin. D. S. Sutherland.	Detroit, Mich New York, N. Y Detroit, Mich Chicago, Ill. Detroit, Mich Chicago, Ill Jackson, Mich. Bay City, Mich Detroit, Mich

### JOLIET & NORTHERN INDIANA RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President. Vice-President. Secretary Treasurer.	C. Vanderbilt H. B. Ledyard E. D. Worcester. Henry Pratt.	New York, N. Y Detroit, Mich New York, N. Y

# MOBILE & OHIO RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board. President. Secretary and Treasurer. Assistant Secretary. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cashier. Cash	J. C. Clarke. Jas. H. Fay. Henry Tacon A. Mackintosh C. M. Shepard E. L. Russell. R. V. Taylor J. C. Clarke. H. S. Depew. G. W. King. J. T. Poe. D. McLaren C. S. Clarke. J. H. Seale. H. W. Clarke. M. T. Carson.	Mobile, Ala. New York, N. Y. Mobile, Ala. New York, N. Y. Mobile, Ala. St. Louis, Mo. Mobile, Ala. St. Louis, Mo. Mobile, Ala. Jackson, Tenn. Murphysboro, Ill. Jackson, Tenn.

# NEW YORK, CHICAGO & ST. LOUIS RAILROAD COMPANY.

Title.	Name.	Location of Office.
Chairman of the Board President Secretary and Treasurer Assistant Treasurer Auditor General Passenger Agent General Freight Agent. General Superintendent Division Superintendent Superintendent Superintendent of Telegraph	D. W. Caldwell Allyn Cox Sam'l E. Williamson. James P. Curry. B. F. Horner. S. B. Spriggs. Lewis illiams. A. W. Johnston. C. D. Gorham	Cleveland, Ohio New York, N. Y Cleveland, Ohio   Fort Wayne, Ind

# CHICAGO & STATE LINE RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President Secretary Treasurer Auditor . Agent in Illinois, for transfer of stock	James P Chievy	Cloveland Obio

# OHIO & MISSISSIPPI RAILWAY COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Secretary Treasurer Chief Engineer General Solicitors. Auditor General Manager General Passenger Agent Géneral Freight Agent Superintendent Assistant Superintendent Superintendent of Telegraph General Baggage Agent Agent in Illinois, for transfer of stock	E. P. Cutter. Robt. Reid C. C. Chandler Ramsey, Maxwell & Ramsey E. P. Cutter J. F. Barnard W. B. Shattue W. D. Shattue C. G. F. Bent. C. M. Stanton	St. Louis. Mo St. Iouis. Mo

# PAWNEE RAILROAD COMPANY.

Title.	Name.	Location of Office.
Chairman of the Board President Vice-President Secretary Treasurer Chief Engineer. Attorneys or General Counsel Auditor General Manager. General Freight Agent General Ticket Agent. Superintendent of Express	John White H. R. Davis. C. E. Clayton H. R. Davis. Joseph E. Burtle Conkling & Grout. C. E. Clayton H. R. Davis. H. E. Farman. H. E. Farman.	Springfield, Ill. Pawnee, Ill

## PENNSYLVANIA COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President	George B. Roberts J. N. McCullough James McCrea Thomas D. Messler S. B. Liggett S. W. White John E. Davidson J. P. Henderson Thomas Rodd J. F. Brooks Thomas D. Messler A. McElvey J. P. Farley James Instan John W. Renner Joseph Wood	Philadelphia, Pa Pittsburgh, Pa Philadelphia, Pa Pittsburgh, Pa     
General Freight Agent Assistant General Freight Agent General Passenger and Ticket Agent Assistant General Passenger Agent	William Stewart. L. C. Cole. F. A. Ford. F. VanDusen	6 6 6 6 6 6 6 6 6 6
General Sup't of Transportation General Superintendent. Division Superintendent, W. division Superintendent of Telegraph General Baggage Agent.	[E. C. Bradley	Pittsburgh, Pa

# CALUMET RIVER RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President. Secretary. Treasurer.	Thomas D. Messler S. B. Liggett. John E. Davidson	Pittsburgh, Pa

# PITTSBURGH, FT. WAYNE & CHICAGO RAILWAY COMPANY.

Title.	Name.	Location of Office.
President	Louis H. Meyer	New York, N. Y
Secretary and Treasurer	John J. Haley	Pittsburgh, Pa
Attorney or General Counsel	Chas. W. Cass	New York, N. Y

# SOUTH CHICAGO & SOUTHERN RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President Secretary Treasurer	T. D. Messler S. B. Liggett Jno. E. Davidson	Pittsburgh, Pa

# PEORIA & PEKIN UNION RAILWAY COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President Secretary and Treasurer Chief Engineer General Solicitors Auditor. General Superintendent General Freight Agent Superintendent of Telegraph. Agent in Illinois, for transfer of stock	Wm. S. Hook H. K. Pinkney Jas. E. Palmer Stevens & Horton P. T. Dwight M. S. Connors M. S. Connors J. H. Morrison	Jacksonville, Ill Peoria, Ill 

# PEORIA, DECATUR & EVANSVILLE RAILWAY COMPANY.

Title.	Name.	Location of Office.
President Secretary and Treasurer. Chief Engineer Attorney or General Counsel. Auditor General Manager General Traffic Manager General Freight Agent. Assistant General Passenger Agent Superintendent Superintendent of Telegraph General Baggage Agent	Wm. Heilman. W. J. Lewis. T. A. Allen. J. S. Stevens. E. B. Cooke. Geo. W. Saul. G. J. Grammer. E. O. Hopkins. S. D. McLeich. R. B. Starbuck.	Peoria, Ill Evansville, Ind Chicago, Ill Evansville, Ind watscon, Ill

# QUINCY, OMAHA & KANSAS CITY RAILWAY COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board. President Vice-President and General Manager Secretary Treasurer General Solicitor Auditor Traffic Manager. Superintendent of Transportation. Superintendent of Transportation. Agents in Illinois, for transfer of stock	Chas, H. Bull. Amos Green E. J. Parker William McFadon John M. Savin J. H. Best. C. E. Soule A. B. Cowan	

### ROCK ISLAND & PEORIA RAILWAY COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President. Vice-President. Secretary and Treasurer Cashier Auditor General Freight, Passenger and Ticket Agent General Superintendent Superintendent of Telegraph. Agent in Illinols, for transfer of stock.	A. Kimball H. B. Sudlow R. Slaymaker J. Elder R. H. Hudson R. Stockhouse H. B. Sudlow	Davenport, Iowa Rock Island, Ill Peoria, Ill Rock Island, Ill

# ST. LOUIS, ALTON & SPRINGFIELD RAILROAD COMPANY.

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Title.	Name.	Location of Office.
Vice-Presiden' Secretary Treasurer Cashier Chief Engineer Attorney or General Counsel Auditor General Manager General Freight and Passenger Agent. Superintendent of Telegraph.	Joseph Dickson Chas. E. Kimball. D. S. Mitchell H. C. Swift Joseph Dickson D. S. Mitchell. H. A. Fisher	Springfield, Ill

# ST. LOUIS, ALTON & TERRE HAUTE RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board President Secretary Treasurer. Cashier Auditor General Manager. General Freight, Passenger, Ticket and Baggage Agent. Superintendent of Telegraph Agent in Illinois, for transfer of stock	Geo. W. Parker E. F. Leonard Geo. W. Parker Henry T. Nash Henry T. Nash Geo. W. Parker Geo. E. Laey	St. Louis, Mo Springfield, Ill St. Louis, Mo 

# BELLEVILLE & CARONDELET RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
President, Secretary Treasurer Agent in Illinois, for transfer of stock	M. T. Stookey Henry T. Nash Geo. W. Parker E. F. Leonard	Belleville, Ill. St. Louis, Mo Springfield, Ill

### BELLEVILLE & ELDORADO RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
Pres'dent.	E. F. Leonard	Springfield, Ill
Secretary	Henry T. Nash	St. Louis, Mo
Treasurer.	R. Fulton Cutting	New York, N. Y
Agent in Illinois, for transfer of stock	E. F. Leonard	Springfield, Ill

### BELLEVILLE & SOUTHERN ILLINOIS RAILROAD COM-PANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Secretary Assistant S cretary Treasurer Agent in Illinois, for transfer of stock	Thos. Denny E. F. Leonard H. A. Crosby J. K. Gapen. E. F. Leonard	New York, N. Y Springfield, III New York, N. Y Springfield, III

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# CHICAGO, ST. LOUIS & PADUCAH RAILWAY COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President . Secretary and Treasurer . Assistant Secretary	W. K. Murphy. Henry T. Nash Henry A. Crosby. E. F. Leonard	Pinckneyville, Ill S . Louis, Mo New York, N. Y Springfield, Ill

# ST. LOUIS SOUTHERN RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President	Ephraim C. Davies	Cincinnati, O
Vice-President	C. W. Fairbanks	Indianapolis, Ind.,
Secretary	C. H. Bosworth.	Springtield, Ill
Treasurer	John E. Megettigan	Indianapolis, Ind.,

# CARBONDALE & SHAWNEETOWN RAILROAD COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board President Secretary and Treasurer	John E. McGettigan John E. McGettigan C. H. Bosworth	Indianapolis, Ind Springfield, Ill

### ST. LOUIS & CHICAGO RAILWAY COMPANY.

#### OFFICERS.

Title.	Name.	Location of Office.
Receiver Attorney or General Counsel Auditor General Manager General Froight Agent General Passenger Agent	Frank H. Jones. C. H. Bosworth. C. H. Bosworth. C. H. Posworth.	4.6 +++++- 6.4 ++++++ 6.6 +++++++

# ST. LOUIS & PEORIA RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Secretary . General Mabager.	Giles E. Taintor . A. J. Moorshead A. J. Moorshead	New York, N. Y Springfield, Ill

# TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS.

### OFFICERS.

Title.	Name.	Location of Office.
President. Vice-President Secretary. Treasurer. Assistant Treasurer Cashier. Chief Engineer Attorney or General Counsel. Anditor. Assistant Auditor General Manager General Passenger Agent General Freight Agent General Freight Agent General Superintendent. Superintendent of Telegraph General Baggage Agent.	John F. Barnard James Hanna. A. H. Cal"p. James Hanna. Fred. C. Daal Wm. Taussig James Hanna Emil Ulric. Wm. Taussig Wm. Taussig V. W. Fisher. Wm. G. Broughton Frank Stillwell E. A. Chenery.	New York, N. Y St. Louis, Mo

# TERRE HAUTE & INDIANAPOLIS RAILROAD COMPANY.

OFFICERS.

Title.	Name.	Location of Office.
President and General Manager Vice-President. Secretary Treasurer Chief Engineer General Counsel Assistant General Manager General Freight Agent General Passenger Agent Ass't General Passenger Agent Superintendent of Transportation Assistant Superintendent Superintendent of Telegraph	John G. Williams Geo. E. Farrington J. W. Cruft. A. J. Gibbons John G. Williams. W. S. Roney Jos. Hill. H. W. Hibbard E. A. Ford. J. M. Chesbrough. H. R. Dering. N. K. Elliott E. R. Darlon. R. B. Woolsey.	" " " " " " " " " " " " " " " " " " "

# ST. LOUIS, VANDALIA & TERRE HAUTE RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Secretary Treasurer. Assistant Secretary.	Thos. D. Messler S. B. Liggett. John E. Davidson. C. D. Hoiles	Pittsburgh, Pa Greenville, Ill

# TERRE HAUTE & PEORIA RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board President Secretary. Treasurer Cashier General Solicitor Anditor General Manager General Freight, Passenger and Ticket Agent Superinterdent of Telegraph	C. W. Fairbanks F. J. Richman I. H. Burgoon F. M. Hobart E. Jacoby W. M. Strange I. H. Burgoon A. Stevens	Decatur, Ill. Indianapolis, Ind. Decatur, Ill.

# TOLEDO, PEORIA & WESTERN RAILWAY COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Executive Committee President Vice-President Secretary. Treasurer. General Solicitor Additor General Manager. General Freight Agent Assistant General Freight Agent. General Passenger, Ticket and Baggage Agent General Superintendent. Superintendent of Telegraph	E. F. Leonard E. N. Armstrong E. D. Usner E. F. Leonard. Walter S. Horton E. F. Leonard. H. D. Usner. E. F. Leonard. H. D. Gould Daniel Mowat. H. D. Gould E. N. Armstrong	New York, N. Y. Peoria, III
Agent in Illinois, for transfer of stock	E. D. Usner	**

# TOLEDO, ST. LOUIS & KANSAS CITY RAILROAD COMPANY.

Title.	Name.	Location of Office.
President Secretary and Treasurer Chief Engineer General Solicitor Anditor General Manager General Freight Agent Assistant General Freight Agent. General Passenger Agent Superintendent Superintendent	N. R. Callaway. W. S. Weed. D. F. Jenning C. C. Jennings C. N. Pratt	St. Louis, Mo Toledo, Ohio Frankfort, Ind

### WABASH RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
Chairman of the Board	O. D. Ashley	New York, N. Y
President	O. D. Ashley	6.6
President Vice-President Vice-President	James F. How	St. Louis, Mo
Secretary	J. C. Otteson	New York, N. Y
Treasurer Chief Engineer	W. S. Lincoln.	6 6 C
General Solicitor	W. H. Blodgett	6.6
Auditor Assistant Auditor	D. B. Howard	
General Manager	C. M. Hays	• •
Traffic Manager	Wm. Knight	
General Freight Agent Assistant General Freight Agent	J. D. Lund	6.6
General Passenger Agent	F. Chandler	· · · · · · · · · · · · · · · · · · ·
General Ticket Agent Assistant General Ticket and Passenger	r. Chandler	
Agent	C S Crane	
General Superintendent Division Superintendent	H. L. Magee E. A. Gould	
Division Superintendent	J. S. Goodrich	Chicago, Ill
Division Superintendent Superintendent of Telegraph	F. H. McGuigan	Kansas City, Mo
General Baggage Agent	S. H. Overholt.	St. Louis, Mo

### WABASH, CHESTER & WESTERN RAILROAD COMPANY.

### OFFICERS.

Title.	Name.	Location of Office.
President Vice-President Secretary Treasurer Anditor General Manager General Manager General Superintendent Agent in Illinois, for transfer of stock	C. B. Cole H. C. Cole C. B. Cole C. E. Kingsbury C. B. Cole C. E. Kingsbury J. R. Hawkins	Chester, III

### WISCONSIN CENTRAL LINES.

#### OFFICERS.

Title.	Name.	Location of Office.
Local Treasurer. Chief Engineer. General Solicitor. Assistant Attorney. Auditor. General Manager. Traffic Manager. General Freight Agent. General Passenger Agent.	F. W. Fratt. D. S. Wegg Howard Morris. T. J. Hyman. R. S. Ainslie. H. C. Barlow. J. B. Cavanaugh.	Chicago, Ill.
Division Superintendent Division Superintendent. Division Superintendent. Superintendent of Telegraph	M. B. Cutler E. R. Knowlton	Stevens Point, Wis. Waukesha, Wis

# CHICAGO & WISCONSIN RAILROAD COMPANY.

Title.	Name.	Location of Office.
President and Treasurer Vice-President and Secretary	Chas. L. Colby Edwin H. Abbott	Milwaukee, Wis

### LIST OF RAILROADS INCORPORATED FOR YEAR END-ING JUNE 30, 1890.

The Chicago and Blue Island Railroad Co. From the village of Blue Island, in Cook county, Ill., to the city of Chicago, in Cook county, Ill. Office, Chicago, Ill. Capital stock, \$50,000. Directors, Charles S. Harmon, Frank O. Young, William Hansbrough, Blue Island, Ill.; Charles C. Collins, Chicago, Ill., and Austin Wissall, Morgan Park, Ill. Filed, July 9, 1889.

East St. Louis and St. Louis Electric Railway Co. From a point in the Illinois and St. Louis Bridge, where the same is intersected by the boundary line between the states of Illinois and Missouri, thence eastwardly to and through the city of East St. Louis, Ill., thence to the National Stock Yards, in the county of St. Clair, Ill., and thence to some eligible and convenient point in St. Clair county. Office, East St. Louis, Ill. Capital stock, \$100,000. Directors, Charles C. Carroll and Henry C. Latham, Springfield, Ill.; S. A. Barton, Chicago, Ill., and D. R. Powell and E. C. Lackland, St. Louis, Mo. Filed, July 30, 1889.

Streator and Seneca Railroad Co. From Streator, LaSalle county, Ill., to Seneca, LaSalle county, Ill. Office, Chicago, Ill. Capital stock, \$600,000. Directors, George H. Harlow, John J. Allen, Charles C. Whitacre, Russell H. Stevens and Lawson A. Gilbert, all of Chicago, Ill. Filed August 10, 1889.

Fort Wayne. Wilmington and Western Railway Co. From a point in Will county, Ill., thence westerly through Washington, Peotone and Wilmington in said county to Blodgett Station in said county, on the Atchison, Topeka and Santa Fe Railroad. Office, Wilmington, Ill. Capital stock, \$2,000,000. Directors, Edmund Allen and M. N. M. Stuart, of Wilmington, Ill.: Charles Smith, Channahon, Ill.: Michael Collins. Peotone, Ill., and David Willard, Wesley, Ill. Filed, August 22, 1889.

The Perry, Pittsfield and Southern Railroad Co. From Perry, Pike county, Ill., to Pittsfield in said county, with branches from Pittsfield to Nebo, in said county, and from Pittsfield to a point in said county on the Mississippi river, opposite Louisiana, Mo. Office, Pittsfield, Ill. Capital stock, \$500,000. Directors, Clark P. Chapman, Pittsfield, Ill.; Asabel Hinman, Perry, Ill.; Eden M. Seeley, Pittsfield, Ill.; George W. Witham, Perry, Ill., and Edward F. Binns and George Barber, Pittsfield, Ill. Filed, August 26, 1889.

The Illinois Elevated Railway Co. From a point within the corporate limits of the city of Chicago, Cook county, Ill., in a northerly direction to the line of said county, and again from a point within the corporate limits of Chicago, Ill., in a westerly direction to the line of said county, and again from a point within the corporate limits of Chicago, Ill., in a southerly direction to the line of said county. and again from a point within the corporate limits of Chicago, Ill., in a southwesterly direction to the line of said county, together with necessary branches or loop lines. Office, Chicago, Ill. Capital stock, \$10,000,000. Directors, Michael W. Ryan, John Tyler, Edward C. Donnellan, Will am W. Bell and Paul Brown, all of Chicago, Ill. Filed, August 28, 1889. The Perry, Pittsfield and Southern Railroad Co. From Perry, Pike county, Ill., to Pittsfield in said county, with branch from Pittsfield to Nebo in said county, and from Pittsfield to a point in said county on the Mississippi river opposite Louisiana, Mo. Office, Pittsfield, Ill. Capital stock, \$100,000. Directors, Clark P. Chapman, Pittsfield, Ill.; Asabel Hinman, Perry, Ill.; Eden M. Seeley, Pittsfield, Ill.; George W. Witham, Perry, Ill., and Edward F. Binns and George Barber, Pittsfield, Ill. Filed, August 31, 1889.

Chicago and Kenosha Railway Co. From such terminus within the city of Chicago, Ill., as may be selected by said corporation to a point on the Illinois State line in Lake county. Office, Chicago, Ill. Capital stock, \$100,000. Directors, Adams A. Goodrich, Jerseyville, Ill., and Frank H. McCulloch, Frank II. Bowen, Harry P. Young and James C. Hutchins, Chicago, Ill. Filed, Sept. 20, 1889.

Joliet and Blue Island Railway Co. From a point at or near Joliet, Will county, Ill., to a point at or near the village of Blue Island, Cook county, Ill. Office, Chicago, Ill. Capital stock, \$100,000. Directors, Adams A. Goodrich, Jerseyville, Ill., and Frank H. McCulloch, Frank II. Bowen, Harry P. Young and James C. Hutchins, Chicago, Ill. Filed, Sept. 20, 1889.

Calumet and Blue Island Railway Co. From such terminus within the City of Chicago, Ill., as may be selected by said corporation, to a point at or near the village of Blue Island, Cook county, Ill. Office, Chicago, Ill. Capital stock, \$200,000. Directors, Adams A. Goodrich, Jerseyville, Ill., and Frank H. McCulloch, Frank H. Bowen, Harry P. Young and James C. Hutchins, Chicago, Ill. Filed, Sept. 20, 1889.

Ava, Grand Tower and Cairo Railroad Co. From the village of Ava, Jackson county, Ill., to the city of Cairo, Alexander county, Ill., and passing through the town of Grand Tower, in Jackson county, and passing through the town of Thebes in Alexander county, and passing through the county of Union. Office, Ava, Ill. Capital stock, \$1,000,000. Directors, Johnston Husband, Wn. E. Talbott, Murry Dean, Whitney Gilbreath, Don E. Detrich, John Conner and Samuel H. Douglas, all of Ava, Ill. Filed, Oct. 16, 1889.

Chicago Central Railway Co. From the city of Chicago, Cook county, Ill., to a point on the west boundary line of the State of Illinois at or near the south boundary line of Adams county, and also from the city of Chicago to a point on the south boundary line of Iroquois county. Office, Chicago, Ill. Capital stock, \$1,000,000. Directors, Milton R. Wood, Charles-W. Needham, Erwin E. Wood, William L. Moss and Edwin L. Waugh, all of Chicago, Ill. Filed, Oct. 18, 1889.

Chicago and Central Southern Railroad Co. From a point to be hereatter selected on the State line between the states of Indiana and Illinois, in Edgar county. Ill., through the counties of Edgar. Vermilion, Iroquois, Kankakee, Will and Cook, to such terminus in the city of Chicago as may be selected. Office, Chicago, Ill. Capital stock, \$4,000,000. Directors, Benjamin T. Lewis, LaGrange, Ill.; B. D. Harris, Frederick S. Winston and James F. Meagher, Chicago, Ill., and Frank P. Crandon, Evanston, Ill. Filed, Oct. 26, 1889.

The St. Louis, Indianapolis and Eastern Railroad Company of Illinois. From East St. Louis, St. Clair county. Ill., in an easterly direction through the counties of St. Clair, Madison, Clinton, Bond, Fayette, Marion, Clay, Effingham, Jasper and Crawford, to the center of the Wabash river, at a point near the village of Palestine. Ill., a distance of about 148 miles; also to purchase, own, operate and maintain as a part of said main line of railroad a railroad commencing at the city of Effingham, Effingham county, Ill., and running southeasterly to a connection with said main line near the city of Newton, Jasper county, Ill., being a distance of about 22 miles. Office, Chicago, Ill. Capital stock, \$6,800,000. Directors, Horatio H. Gardner, Thomas B. Rice, John Prindiville, John L. Stockton and Ira C. Wood, all of Chicago, Ill. Filed, Oct. 30, 1889. Chicago and State Line Terminal Railway Co. From the Indiana State line between the south line of the town of Thornton, Cook county. Ill., and Lake Michigan, northwesterly to and through the city of Chicago, Cook county, Ill. Office, Chicago, Ill. Capital stock, \$3,000,000. Directors, Charles E. Rand. Theo. Emery, John Emmet Phillips, Joseph McH. Holmes and Charles H. Pringle, all of Chicago, Ill. Filed, Nov. 2, 1889.

Chicago and Northern Pacific Railroad Co.-

1st. From the southwest corner of Harrison street and Fifth avenue in the city of Chicago. Cook county, Ill., westerly and southwesterly through the city of LaSalle to the Mississippi river.

2d. From a point in the vicinity of the intersection of Crawford avenue and West Randolph street in the city of Chicago, westerly to the Mississippi river.

3d. From some convenient point on route number two in the town of Proviso, southerly and southwesterly to the city of East St. Louis.

4th. From a point in the vicinity of the intersection of Crawford avenue and West Randolph street in the city of Chicago. southerly to the southern limits of Cook county, with a branch easterly to Lake Michigan and a branch westerly to the west limits of Cook county.

5th. From some convenient point on route number one in the west division of the city of Chicago, southerly to the Ohio river, with branches from three convenient points in Cook county easterly to the eastern boundary of the State of Illinois.

6th. From some convenient point in Macon county on route number three southerly to the Ohio river.

7th. From some convenient point on route number one in the town of Cicero, southerly to the southern limits of Cook county.

8th. From some convenient point on route number one between Crawford avenue in the city of Chicago and the west limits of the town of Cicero, southwesterly to the western limits of Cook county. Office, Chicago, Ill. Capital stock, \$30,000,000. Directors, James L. High, Alfred D. Eddy, Chauncey W. Martyn, James E. Rogers and David Eichberg, all of Chicago, Ill. Filed, Nov. 23, 1889.

Belleville and East St. Louis Railway Co. From Belleville, Ill., to East St. Louis, Ill. Office, Belleville, Ill. Capital stock, \$500,000. Directors, Julius Kohl, Belleville, Ill.; Henry Seiter and James D. Baker. Lebanon, Ill.: Herman G. Weber, Belleville, Ill.; J. L. Wiggins, East St. Louis, Ill.; Joseph Fuess, Belleville, Ill.: Henry D. Sexton. East St. Louis, Ill., and Charles P. Knispel, Belleville, Ill. Filed, Nov. 27, 1889.

Belleville Terminal Railway Co. From a point within or adjoining the city of Belleville, Ill., around said city of Belleville so as to connect all the railways within said city with one another. Office, Belleville, Ill. Capital stock, \$100,000. Directors, Julius Kohl, Belleville, Ill.; Henry Seiter and James D. Baker, Lebanon, Ill.; Herman G. Weber, Belleville, Ill.; J. L. Wiggins, East St. Louis, Ill.; Joseph Fuess, Belleville, Ill.; Henry D. Sexton, East St. Louis, Ill., and Charles P. Knispel, Belleville, Ill. Filed, Nov. 27, 1889.

St. Louis and Illinois Central Railway Co. From Eureka, Woodford county, Ill., southerly through the counties of Woodford, McLean, Tazewell, Logan, Sangamon, Montgomery, Macoupin and Madison to Alhambra, Madison county, Ill., with necessary side tracks. Office, Springfield, Ill. Capital stock, \$2,800.000. Directors, Robert McWilliams, Litchfield, Ill.; J. M. Stark, Pawnee, Ill.; H. R. Phinney, Alton, Ill.; H. W. Dana, Lincoln, Ill.; John E. Risley, New York, N. Y.; Tracey E. Roberts, Brooklyn, N. Y., and Frank C. Hollins, New York, N. Y. Filed, Nov. 27, 1889.

Chicago and Southeastern Railroad Company. From Chicago, Ill., to a point on the Indiana State line in the township of Thornton, Cook county, Ill. Office, Chicago, Ill. Capital stock, \$100,000. Directors, Adams A.

Goodrich, Jerseyville, Ill.: Eugene E. Prussing, Highland Park, Ill., and James C. Hutchins, Frank H. McCulloch and Frank H. Bowen, Chicago, Ill. Filed, Dec. 5, 1889.

St. Louis and Eastern Railway Co. From a point on the Mississippi river opposite St. Louis, Mo., in Madison county, Ill., to a point on the Illinois State line in Crawford county, Ill., with such lateral branches and spurs as may be necessary. Office, East St. Louis, Ill. Capital stock, \$200,000. Directors, H. R. Durkee and J. S. Brewer, Chicago. Ill; E. C. Springer, Edwardsville, Ill.: William F. Nedringhaus, George O. Carpenter. Jr., and William E. Guy, St. Louis, Mo., and C. E. Bradish, Alton, Ill. Filed, Dec. 16, 1889.

St. Louis and Belleville Railway Co. From the city of Belleville, St. Clair county, Ill., to the city of St. Louis, Mo. Office, Belleville, Ill. Capital stock, \$300,000. Directors, D. P. Alexander, Wichita, Kansas: George Knobeloch, Carrie T. Alexander and Fred. Holdner, Belleville, Ill., and John D. Alexander, Wichita, Kansas. Filed, Dec. 18, 1889.

Alton, Venice and East St. Louis Railroad Co. From the city of Alton, Madison county, Ill., by Venice, to the city of East St. Louis, St. Clair county, Ill. Office. Alton. Ill. Capital stock, \$300,000. Directors, Henry D. Sexton, East St. Louis, Ill.; William E. Smith, Z. B. Job, H. J. Bowman, John N. Drummond and A. E. Mills, Alton, Ill.; T. J. Irish, Nameoki, Ill.; Frank McCambridge, Venice, Ill., and John Weding, Nameoki, Ill. Filed, Jan. 9, 1890.

The Jacksonville, Louisville and St. Louis Railway Co. From the city of Jacksonville, Morgan county, Ill., through the counties of Morgan, Sangamon, Macoupin, Montgomery, Bond. Clinton and Marion to the city of Centralia, Marion county, Ill. Office, Jacksonville. Ill. Capital stock, \$1,-500,000. Directors, J. Henry Dunn, Germantown, Pa.; William Elliott, Chestnut Hill, Pa., and Isaac L. Morrison, William S. Hook and Marcus Hook, Jacksonville, Ill. Filed. Jan. 18, 1890.

The St. Louis, Chester and Grand Tower Railroad Co. From East St. Louis, St. Clair county, Ill., in a southeasterly direction through the counties of St. Clair, Monroe, Randolph and Jackson and the town of Chester to the town of Grand Tower. Office, East St. Louis, Ill. Capital stock, \$1,500,000. Directors, William Carson, Jr., S. Dwight Eaton, William D. Eaton and Walter B. Eaton, Burlington, Ia.; Thomas N. Chase, East St. Louis, Ill.; H. M. Pollard, St. Louis, Mo., and E. Reynolds. Filed, Jan. 23, 1890.

The North and South Railroad Company of Illinois. From Eureka, Woodford county, Ill., southerly through the counties of Woodford, Mc-Lean, Tazewell, Logan, Sangamon, Montgomery, Macoupin and Madison to Alhambra, Madison county, Ill. Office, Springfield, Ill. Capital stock, \$2,800,000. Directors, C. H. Bosworth. Springfield, Ill.; J. M. Stark, Pawnee, Ill.; John W. Bunn, Springfield, Ill.: David D. Withers, New York, N. Y., and Gerald L. Hoyt, New York, N. Y. Filed, Jan. 23, 1890.

St. Louis, Venice and Alton Railroad Co. From the city of Alton, Madison county, Ill., to a point in the city of East St. Louis, Ill., opposite St. Louis, Mo. Office, East St. Louis, Ill. Capital stock, \$500,000. Directors, John H. Overall and Alfred Carr, St. Louis, Mo.; Jerome Winstanley, Geo. W. Locke and Jas. K. Ewing, East St. Louis, Ill.; E. E. Rutledge, Alton, Ill., and H. M. Needles, Belleville, Ill. Filed, January 31, 1890.

The Peoria and Eastern Railway Co. From Pekin, Ill., through the counties of Tazewell, McLean, DeWitt, Piatt, Champaign and Vermilion to the boundary line between the States of Illinois and Indiana, with an extension through the counties of Vermilion, Warren, Fountain, Mont-gomery, Boone, Hendricks and Marion, to Indianapolis, Ind. Office, Danville, Ill. Capital stock, \$10,000,000. Directors, John Alfred Barnard, Indianapolis, Ind.; John A. Glover, Urbana, Ill., and Edmond L. Stewart, Danville, Ill. Filed, February 21, 1890.

Chicago, Blue Island and State Line Railway Co. From a point on the Illinois and Indiana State line in Cook county, Ill., northerly to and into the city of Chicago, Ill. Office, Chicago, Ill. Capital stock, \$5,000,000. Directors, William Shingleton, William Black, Walter 1. Pratt, Chas. H. Pringle and D. J. Evans, all of Chicago, Ill. Filed, February 27, 1890.

Chicago, Harvey and State Line Railway Co. From a point on the boundary line between the States of Illinois and Indiana, northerly to and into the city of Chicago, Ill. Office, Chicago, Ill. Capital stock, \$3,000,000. Directors, William Shingleton, William Black, Walter I. Pratt, Chas. H. Pringle and D. J. Evans, all of Chicago, Ill. Filed, February 27, 1890.

Chicago and Evanston Elevated Rapid Transit Co. From a convenient terminus at or near the point where North Clark street, in the city of Chicago, III. meets the Chicago river, thence in a northerly and northwesterly direction to a terminus at or near the place where Chicago avenue intersects Center street in the township of Evanston. Office, Chicago, III. Capital stock, \$12,000,000. Directors, John Cudahy, George F. Baldwin, Jacob A. Wolford, E. Partridge, Charles Dennehy, Thos. C. Dennehy, Fridolin Madlener and C. W. Partridge. Filed, March 8, 1890.

St. Louis, Chester and Grand Tower Railroad Co. From East St. Louis, III., through the counties of St. Clair, Monroe, Randolph and Jackson to Grand Tower, III. Office, East St. Louis, III. Capital stock, \$1,500,000. Directors, S. Dwight Eaton, Burlington, Ia.; H. M. Pollard, St. Louis, Mo.; Thos. M. Chase, East St. Louis, III.; William F. Barrett, Chicago, III. and M. C. Brown, East St. Louis, III. Filed, March 17, 1890.

St. Clair, Madison and St. Louis Belt Railroad Co. From a point in or near the city of Belleville, St. Clair county, Ill., to a point on the Mississippi river at or near the city of Alton, Madison county, Ill., and to a point on the boundary line between the States of Illinois and Missouri, and thence to St. Louis. Mo. Office, East St. Louis. Ill. Capital stock, \$300,000. Directors, H. M. Hill, East St. Louis. Ill., George S. Drake and Alvat Mansur, St. Louis, Mo., and F. M. Horner and John McIntyre, East St. Louis, Ill. Filed, March 28, 1890.

Cass Street, Lake View and Evanston Elevated Road Company. From within the city of Chicago, Cook county. Ill., to the village of Evanston in said county. Office, Chicago, Ill. Capital stock, \$6,000,000. Directors, L. R. Hall, Chicago, Ill., Samuel W. Jackson, Chicago, Ill., and Hervey, H. Anderson, Ravenswood, Ill. Filed, April 4, 1890.

Manufacturers Railroad Company. From the Indiana State line in the town of Thornton. Cook county, Ill., to Blue Island and Chicago in said coupty. Office, Chicago, Ill. Capital stock, \$150,000. Directors, Nathau G. Moore, Oak Park, Ill., and John P. Wilson, Houston C. Adcock, Alfred E. Spink and William B. McIlvaine, Chicago, Ill, Filed, April 10, 1890.

Springfield and Hillsboro Railroad Co. From Springfield through the counties of Sangamon, Christian and Montgomery to a point on the Toledo. St. Louis and Kansas City Railroad south of Hillsboro, Montgomery county, Ill. Office, Springfield, Ill. Capital stock, \$500,000. Directors. J. M. Stark, Pawnee, Ill.: J. R. Booth and C. W. Phillips. Springfield, Ill.: W. S. Weber, Zenobia, Ill., and Wm. H. Vigal, New City, Ill. Filed, April 12, 1890.

The Chicago and Eastern Railway Co. From the city of Chicago, Cook county, Ill., in an easterly direction through said county to a point on the State line between the States of Illinois and Indiana in said county, where the Indiana & Northern Railway shall intersect said State line. Office, Chicago, Ill. Capital stock, \$100,000. Directors, George G. Hadley, John E. Martin and George H. Ketcham, Toledo, O.: Thomas C. Louchs, Elgin, Ill., and Linnaeus E. Overman, Nelson C. Jennings and Christopher Whalen, Chicago, Ill. Filed. April 16, 1890.

Forsyth Elevated Railroad Co. From a point on the State line between the States of Illinois and Indiana in Cook county, Ill., northerly to, and into the city of Chicago, Ill. Office, Chicago, Ill. Capital stock, \$2,500,000. Directors, R. Clark Forsyth, Jacob Forsyth, John J. Forsyth, George W F. Forsyth and Oliver O. Forsyth, all of Sheffield, Ind. Filed, April 24 1890. The Chicago and Western Rapid Transit Railway Co. From and within the city of Chicago, Cook county, Ill., the main line to commence at some point east of Fifth avenue and between Madison and Harrison streets, and thence west to the present and future city limits: a branch to commence at the main line at a point between Canal and Carpenter streets and thence north to the present and future city limits; a branch to commence at main line between Ashland avenue and Wood street and thence north to a point 400 feet north of south of Milwaukee avenue: thence northwest to a point 400 feet north of North avenue: thence west to the present or future city limits. Office, Chicago, Ill. Capital stock, \$\$,000,000. Directors, E. Louis Kuhns, Harry A. Ritter. Alexander F. Shuman, Percy L. Shuman and Joseph H. Defrees, all of Chicago, Ill. Filed, April 25, 1890.

Forsyth Elevated Railroad Co. From a point on the State line between the States of Illinois and Indiana in Cook county, Ill., northerly to, and into the city of Chicago, Ill. Office. Chicago, Ill. Capital stock, \$5,000,000. Directors, Jacob Forsyth, John J. Forsyth, George W. Forsyth and Oliver O. Forsyth, Sheffield, Ind., and Henry F. Moore, Chicago, Ill. Filed, April 26, 1890.

The Milwaukee Avenue Alley Railroad Co. From a point on the east line of Canal street, Chicago, Ill., between Madison and Fulton streets, thence northerly to a point between Fulton and Kinzie streets, thence northwesterly to Lawrence avenue in said city. Office, Chicago, Ill. Capital stock, \$5,000,000. Directors, August Meyer, John M. Krause, Edward Weissert, Andrew C. Lausten and Ferdinand Hanssen, all of Chicago, Ill. Filed, May 9, 1890.

New York, St. Louis and Kansas City Railway Co. From a connection with the New York, Wheeling, St. Louis and Chicago Railway Co. of Indiana at a point on the boundary between the States of Illinois and Indiana in Sullivan and Crawford counties, thence to East St. Louis, Ill. Office, East St. Louis, Ill. Capital stock, \$4,000,000. Directors, J. E. Williams, E. C. Rice and G. H. Ten Broek, St. Louis, Mo.: Alexander Flannigan and Benjamin H. Canby, East St. Louis Ill., and Thomas Cratty and Josiah Cratty, Chicago, Ill. Filed, May 15, 1890.

The Calumet Electric Street Railway Co. It is intended to construct and operate the said railway in, on, upon, over, along and across any and all of the streets and alleys within the present or future limits of the City of Chicago, Cook county, Ill., and to the boundary line between the States of Illinois and Indiana. and to such other place or places in Cook county as the said company may determine. Office, Chicago, Ill. Capital stock, \$50,000. Directors. Nathaniel K. Fairbank, Joel D. Harvey, William V. Jacobs, Otho S. Gaither and Samuel E. Gross, all of Chicago, Ill. Filed, May 16, 1890.

The Chicago Arcade Rapid Transit Railway Co. From and within the city of Chicago, Cook county, Ill., the main line to commence at some point east of Fifth avenue, between Madison and Harrison streets, thence west to the present and future city limits: a branch to commence at main line between Ashland avenue and Wood street and thence north to a point 400 feet north or south of Milwaukee avenue: thence northwest to a point 400 feet north of North avenue: thence west to the present and future city limits: a branch to commence at the first named branch at a point between Chicago avenue and Augusta street and extend west to present and future city limits, and such other branches as may be deemed necessary or proper by said company. Office, Chicago, Ill, Capital stock, \$\$00,000. Directors, E. Louis Kuhns, Harry A. Ritter, Alexander F. Shuman, Percy L. Shuman and Joseph H. Defrees, all of Chicago, Ill. Filed, May 21, 1890.

Quincy, Keokuk and Chicago Railroad Co. From Quincy, Adams county, 111., to Niota, Hancock county, 111. and to operate a road from Keokuk, Iowa, to Hamilton, Hancock county, 111. Office, Quincy 111. Capital stock, \$1,500,000. Directors, George W. Kretzinger, Charles Gibson and C. R. Arnold. Chicago, Ill.: C. A. McLaughlin, Galesburg, Ill.: Samuel S. Gray, Hamilton, Ill.; William Hill and James F. Crawford, Warsaw, Ill.; James M. Bishop, Quincy, Ill., and A. C. Reed, Chicago, Ill. Filed, June 4, 1890.

Little Wabash Railway Co. From Effingham, Effingham county, Ill., to Carmi, White county, Ill. Office, Clay City, Ill. Capital stock, \$1,500,000. Directors, Edward Austin, Effingham, Ill.: Theron Gould, Georgetown, Ill. C. E. Hitts, Sailor Springs, Ill.: John B. Hutchens, Burnt Prairie, Ill.: J. I. McCauley and Israel Mills., Clay City, Ill.: Luther Yohe. Mt. Erie, Ill.: Nathaniel Holderly, Carmi, Ill., and James Price. Filed, June 30, 1890.

The Atlantic. Mexican and Pacific Railway Co. of Illinois. From a point on the Wabash river at or near Merom. Crawford county, Ill., westwardly through the counties of Crawford, Jasper, Effingham, Clay, Fayette, Marion, Bond, Clinton, Madison and St. Clair to or near East St. Louis, Ill.; also a line commencing at some point on the above line in Crawford county, thence southwestwardly through the counties of Crawford, Jasper, Richland, Clay, Wayne, Marion, Jefferson. Washington, Perry and Randolph to a point at or near Chester, Ill. Office, Robinson, Ill. Capital stock, \$5,600,000. Directors, A. Dale Owen, Philadelphia, Pa.: Henry Follett, London, England; Marchial Minkler, Detroit, Mich.; William H. McCourtie, Kalamazoo, Mich., and B. F. Bush, Grand Blanc, Mich. Filed, June 30, 1890.

### GRAIN INSPECTION DEPARTMENT.

#### TWENTIETH ANNUAL REPORT.

### Showing the transactions of the Department from November 1, 1889, to October 31, 1890.

OFFICE OF CHIEF INSPECTOR OF GRAIN. CHICAGO, November 1, 1890.

Hon. John R. Wheeler, Chairman Railroad and Warehouse Commission, Springfield, 11linois:

DEAR SIR:—It gives me pleasure to announce, in submitting this, the twentieth annual report of this office for the consideration of your honorable board, that the year just closed has been the most prosperous one in the history of the department.

The record of 1880, which for ten years has stood out prominently upon the face of our reports, now falls into the second place.

In 1880, 270,524 cars and 1,022 canal boats brought to the city 138,896,368 bushels of grain. This number of cars bas never until now been reached, although in 1888 and also in 1889 the number of bushels—owing to the increased size of the cars in use—was greater.

The record for the year just closed, however, shows receipts of 272,956 cars and 610 canal boats, containing 204,506,701 bushels of grain; being an increase of 2,432 cars and 65,610,333 bushels over 1880, and an increase over last year,—which was the largest ever before known in actual volume of grain—of 30,836,254 bushels.

#### THE WORK OF THE DEPARTMENT.

The relations of the department to the trade and to the general public have been unusually satisfactory during the year.

The number of appeals from the decisions of the inspectors has fallen off about one-half, and there has been a noticeable absence of criticism and complaint.

These facts, as well as the many commendations which have come to me from country shippers, board of trade men and eastern buyers warrant me in the belief that the work of the inspectors on the tracks and in the elevators has been done with unusual care, fidelity and accuracy.

This is more noteworthy from the fact that in some respects the work has been attended with more difficulty and inconvenience to the men and with greater proportionate expense to the department than ever before.

The evident improvement in the work of the department is due in a great measure to the wisdom, vigilance and discretion of our supervising

inspectors whose constant attention to the work upon the tracks has resulted in a higher standard of efficiency and to a greater devotion of the men to the work in hand.

Their detection of any deviation from the established lines and their prompt correction of all errors have not only resulted in more exact justice to shippers, but have almost entirely done away with complaints of unevenness of grading.

The inculcation of a spirit of self-reliance in our inspectors and a stimulation of their professional pride by a judicious system of promotions and a rigid discipline in all matters involving neglect of duty or disobedience of orders have also tended largely to the improvement of the service.

Each man has been made to realize that his retention in his position or his promotion to a higher one depends entirely upon his own qualifications and his fidelity to duty, and not in any degree upon the personal or political influence he may be able to command.

The character of the service required of an inspector and the very delicate and responsible nature of his duties require that he should be absolutely free from apprehension as to the tenure of his office, and that he should, as far as possible, be divested of every interest or association that would divert his mind from the constant study and application necessary to substantial success in his profession.

### DEPARTMENT EXPENSES.

That the necessity for larger expenses should keep pace with the increase of business during the past two years is but natural; and to the members of your honorable board who have been familiar with the necessities of the department as they arose, it will be a matter of congratulation that our expenses have been confined to so narrow a limit.

The letting of contracts for a year's supply of our printing, stationery, blank books and certificates to the lowest bidder has effected a saving of several hundred dollars in our annual expense, and has served to offset in some degree the expansion necessary to meet the demands of the trade.

A distinguishing feature of Chicago business methods is dispatch, and it is a matter of frequent remark that in no other grain market of the country are returns from sales as promptly remitted as here.

The rule among our commission men is that sales shall be made and proceeds remitted the day the grain arrives.

In order to effect this very desirable object it is essential that the bulk of the work on the tracks shall be done so early in the day that notices of the inspection and samples of the grain may be delivered on 'Change in time for that day's session, and that the work of the office shall be practically over by the time for closing the afternoon mails.

This necessitates a complete telephone service and a much larger force of men upon the tracks and in the office than would be required to do the work if it could be distributed throughout the day.

A source of further increase of expenditure consequent upon present business methods was laid before your honorable board in my report for 1889, and need not be recounted here.

1 allude to the large proportion of grain transferred at junction points from western to eastern cars and carried on "through bills of lading" from initial points to the seaboard.

This grain, which does not pass through Chicago elevators, is almost all sold on Chicago certificates: and our inspectors, in order to reach it, are obliged to visit every day from ten to twenty of these junction points at long distances from our regular inspection stations and from each other. This special inspection requires the services of three and often four track inspectors. As an indication of the extent to which this method of transportation is carried it may be of interest to note that during last year but 46 per cent. of the grain passing through the hands of the department went to the elevators.

The work of the office has been very largely increased also in the matter of certificates. But a few years ago certificates were called for on but a small per centage of the cars inspected, and it was no unusual thing to place thirty to fifty cars upon one certificate.

Now separate certificates, and, in a majority of cases, duplicates are required upon most of the cars inspected.

Yet, notwithstanding the circumstances above noted, our entire expense including every expenditure of every kind for inspection, registration and appeals amounts to but forty-one one-hundredths of a mill per bushel of grain inspected—a point reached but once in the last ten years.

### REDUCTION OF FEES.

When, a year ago, your honorable board reduced the fees for inspection on arrival from thirty-five to thirty cents per car, I took occasion to say, "In regard to the reduction of fees for inspection on arrival from thirtyfive cents to thirty cents, wisely made by your honorable board and which goes into effect at the date of this report. I can only repeat in substance what I said in my letter recommending the same, that while owing to the unusually large receipts during the past two years, the surplus fund of the department is larger than necessary to pay the natural deficit in its expenses during the winter, and may, therefore, properly be returned to the country shippers in the form of a reduction of fees, yet thirty cents per car is inadequate to the maintenance of the department upon a basis of thorough efficiency; and I am convinced that within a year, (or a year and a half at the farthest) it will be found necessary to restore the old rate."

While I see no reason in the general situation to change the views then expressed, still the receipts of grain have been so large that our surplus has slightly increased (notwithstanding the reduction in rates); and as it is now larger than is necessary for the ordinary exigencies of the department, I respectfully recommend that the shippers be given the benefit of the unnecessary surplus by a reduction of the rate, on and after December 1, to twenty-five cents per car.

### SIZES OF CARS.

In all comparisons of the earlier with the later reports of the department it is necessary to take into careful account the average loading of the cars which has increased since 1877 within a fraction of 75 per cent.

In 1877 the average contents of each car was 416 bushels: in 1878, 451; in 1879, 460; in 1880, 491; in 1881, 520: in 1882, 559: in 1883, 572; in 1884, 601; in 1885, 608; in 1886, 641; in 1887, 673; in 1888, 685; in 1889, 684; in 1890, 727.

From the above figures it will be seen that, at our present loading, the rate of twenty-five cents per car herein recommended, would be equivalent to a rate of but fourteen and one-half cents per car if the average loading of 1877 prevailed.

### IN CONCLUSION.

I am glad to be able to say that during the year the members of our force have, as a rule, discharged their duties conscientiously and faithfully.

1 wish also to acknowledge the hearty and cordial coöperation with which your honorable board has invariably met every recommendation for the improvement of the service, the maintenance of discipline or the preservation of the rights of the trade and the public.

### CLAIMS FOR DAMAGES.

A question of great importance to the trade and one about which great diversity of opinion exists is that of the liability of the department for errors of inspection.

The unanimous opinion of the trade is that the injured party should look to the department for prompt settlement as it looked to the Board of Trade when that body had control of the inspection, and that reimbursement of the department funds should be a matter of adjustment between the Railroad and Warehouse Commission and the inspector.

In the earlier years of the department—in fact, during more than half of its existence, successive boards of Railroad and Warehouse Commissioners took this view of the matter. Claims were promptly paid as soon as substantiated and the amounts assessed against the inspector who made the error when the liability could be clearly fixed, and treated as an expense of the department when it could not.

Later boards, however, have held that there was no sufficient warrant in the law for such use of the department funds, and that the only recourse of the injured party lay in a suit upon the inspector's bond.

Without discussing the relative correctness of these conflicting opinions 1 beg leave to suggest that your honorable board make some recommendation to the General Assembly soon to convene, looking to a clearer provision of the law on this subject.

As a rule the amounts involved in any one of these claims is small,—so small that the costs of a suit upon the bonds of an inspector would be practically prohibitory, while the time and trouble involved in its collection would be so great that the injured party would prefer the loss to the remedy.

Then, again, in a large proportion of these claims while the loss and the error are clearly proven it is impossible to fix the error upon a particular inspector, or, having done so, to prove his negligence.

Inasmuch as the department collects the fees for inspection, the trade looks to it for a prompt adjustment of its losses, and rightfully so.

It expects us to make good any grade we affix to its grain, and, without this, public confidence in our certificates must be weakened.

My suggestion is that your honorable board recommend an amendment to the law by which just claims may be promptly paid from the funds of the department, leaving it to the Commission to assess the amounts, or such portion of them as may be deemed best for purposes of discipline, against the inspectors.

Very respectfully submitted.

### P. BIRD PRICE,

Chief Inspector.

-12 R. R.

# Exhibit A-1.

						WIN	TER	Wв	(EA	AT.				
Months.	Π	hite			Furkis	sh.	Lo Re	ng d.		I	Red W	inter.		Total Cars.
	2	3	4	1	2	8	1	2	1	2	3	4	Not grad'd.	
January, 1890 February, 1890	2	$11 \\ 12 \\ 10 \\ 12 \\ 23 \\ 5 \\ 17 \\ 19 \\ 12 \\ 26 \\ 11 \\ 23 \\ 12 \\ 3 \\ 12 \\ 3 \\ 12 \\ 3 \\ 12 \\ 12$	$56 \\ 2 \\ 5 \\ 18 \\ 3 \\ 7 \\ 7 \\ 11 \\ 8 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 $	····· ···· 3	$\begin{array}{c} & 1 \\ & 2 \\ & 2 \\ & 3 \\ & 1 \\ & 3 \\ & 1 \\ & 444 \\ 1,415 \\ & 777 \\ & 406 \end{array}$	651 175		 1 1	······································	71 73 50 34 28 42 228 107 493 645 507 304	832 403 370 310 475 343 386 209 661 820 426 313	337 176 135 97 180 123 117 49 204 308 134 96	1 6 7 10 18 7 35 87	$\begin{array}{c} 1,292\\702\\572\\466\\734\\529\\791\\406\\2,003\\3,971\\2,113\\1,345\end{array}$
Total cars	48	181	92	3	3,055	1,110		2	4	2,582	5,548	1,956	343	14,924

# Inspection on Arrival—By Months.

Exhibit A-2.

# Inspection on Arrival—By Months.

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Months.	Colo	rado.	Hard.				Not	Wł	nite.	2	3	Total Cars.
	2	3	2	2	3	4	gra'd	2	3	2	ð	
November, 1889 December, 1889 January, 1890 February, 1890 March, 1890 May, 1890 June, 1890 July, 1890 August, 1890 September, 1890 October, 1890	1	4		$\begin{array}{c} 2,718\\ 1,556\\ 470\\ 162\\ 19\\ 217\\ 706\\ 447\\ 153\\ 113\\ 361\\ 507\\ \end{array}$	785, 557 327 87 163 228 312 154 103 288 757 798	$\begin{array}{c} 328\\ 237\\ 264\\ 138\\ 169\\ 134\\ 123\\ 81\\ 65\\ 118\\ 120\\ 104 \end{array}$	$28 \\ 10 \\ 6 \\ 13 \\ 14 \\ 12 \\ 16 \\ 10 \\ 14 \\ 23 \\ 12 \\ 29 \\ 29$	····· ···· 1 1 1  8		3	1031034458896	$\begin{array}{c} 4,051\\ 2,472\\ 1,158\\ 456\\ 428\\ 622\\ 1,184\\ 712\\ 350\\ 570\\ 1,301\\ 1,505\end{array}$
Total cars	14	7	4	7,429	4,559	1,881	187	16	615	14	83	14,809
Total estimate	ed bus	hels										8,929,827

# Ехнівіт А-З.

					Cor	RN.				
Months.		Yellov	w.	Wh	ite.				Not	Total Cars.
	1	2	3	2	3	2	3	4	Graded.	
Vovember, 1889 December, 1889 January, 1890 February, 1890 March, 1890 March, 1890 June, 1890 June, 1890 July, 1890 August, 1890 September, 1890 Dotober, 1890 Total cars.	i i i	2,477 2,298	$\begin{array}{c} 2,446\\ 1,640\\ 1,423\\ 2,000\\ 1,499\\ 2,240\\ 1,578\\ 1,238\\ 1,086\\ 1,288\end{array}$	$\begin{array}{c} 191 \\ 57 \\ 299 \\ 411 \\ 182 \\ 176 \\ 653 \\ 676 \\ 643 \\ 427 \\ 422 \\ \hline 3,963 \end{array}$	79 200 243 325 433 751 460 398 287 413 403 4,187	$\begin{array}{c} 1,092\\997\\887\\5,338\\2,663\\5,584\\5,643\\5,827\\4,761\\5,774\end{array}$	3,887 3,323 6,920 4,673 2,732 3,293 2,621 2,130 3,139 2,642	1,673 1,736 1,178 812 1,028 1,317 1,175 1,068 980 840	$144 \\ 193 \\ 54 \\ 40$	$\begin{array}{r} 8,13\\11,72\\8,65\\7,99\\16,84\\10,89\\15,59\\15,56\\13,71\\12,25\\14,55\\14,55\\11,83\\$

# Inspection on Arrival—By Months.

EXHIBIT A-4.

# Inspection on Arrival-By Months.

			0 A	TS.					R	YE.		
Months.	1	White 2	э. 3	2	3	Not Graded.	Total Cars.	1	2	3	Not Graded.	Total Cars.
November, 1889 December, 1889 January, 1890 February, 1890 March, 1890 May, 1890 June, 1890 July, 1890 August, 1890 September, 1890 October, 1890 Total cars	1  1	1,302 1,190 1,815 4,143 2,179 1,893 3,932	$\begin{array}{c} 2,008\\ 1,861\\ 2,115\\ 1,766\\ 2,638\\ 4,708\\ 2,420\\ 1,990\\ 2,894\\ 2,486\\ 2,856\end{array}$	2,214 870 664 1,185 1,059 897	$\begin{array}{r} 292\\ 322\\ 247\\ 229\\ 245\\ 337\\ 519\\ 323\\ 336\\ 463\\ 426\\ 463\\ 426\\ 463\\ 4,182\end{array}$		3,770 4,311 4,132 4,453 3,961 15,854 11,628 5,816 4,922 8,4922 8,4922 8,7,301 7,151 71,797	5  1	354 401 348 281 167 189 329 237 190 472 381 328 3,677	135150118654783197137639470671,226	22	507 558 468 347 216 276 529 395 256 571 456 409 4,988
Total estimated bush	els.					72	,945,752				3	,012,752

# EXHIBIT A-5.

					BAR	LEY.					GRAND
Months.	Bre	ay ew- ig.	Che lie	eva- er,	2	3	4	5	Not Graded.	Total Cars.	TOTAL. Cars of all
	2	3	2	3	2	5	4	J	ided.		kinds of Grain.
ovember, 1889					4	$1,265 \\ 781$	$\frac{610}{531}$	$\frac{70}{68}$	19 6	$1,968 \\ 1,387$	$     \begin{array}{c}       19,723 \\       21,151   \end{array} $
nuary, 1890 abruary, 1890						$1,000 \\ 939$	$\frac{459}{400}$	$\frac{51}{39}$	6 5 17 16	$1,515 \\ 1,395$	16,503 15,109
arch, 1890 pril, 1890 ay, 1890				••••	••••	613 644 478	$\frac{326}{295}$ 370	20 28 35	20 15	975 987 898	$     \begin{array}{r}       23,155 \\       19,162 \\       30,625     \end{array} $
me, 1890 ily, 1890						182 26	$     \begin{array}{r}       198 \\       32 \\       222     \end{array} $	35 13 11	5 1 7	$422 \\ 75 \\ 1.214$	$     \begin{array}{c}       23,013 \\       21,320 \\       27,081     \end{array} $
agust, 1890 eptember, 1890 etober, 1890	1	····. 2	i		$     \begin{array}{c}       12 \\       31 \\       30     \end{array} $		678 839	36 66	49 97	4,104 4,036	29,833 26,281
Total cars	2	2	1		83	13,199	4,960	472	257	18,976	272,950

# Inspection on Arrival-By Months.

EXHIBIT B-1.

# Inspection on Arrival—By Railroads.

						WIN	ΤE	R W	НE	SAT.				
RAILROADS.	W	hite	э.		Turki	ish.	Le R	ong led.		]	Red W	inter		TOTAL CARS.
	2	3	4	1	2	3	1	2	1	2	3	4	Not Grad'd	
C., B. & Q C., R. I. & P C. & A Ill. Cent titalena Div. C. & N. W. Wis. Div. C. & N. W. Wabash C. & E. I. C., M. & St. P Wis. Cent C., St. P. & K. C. A., T. & S. Fe Through and special	····; 7	$15 \\ 5 \\ 14 \\ 5 \\ 29 \\ 2 \\ 1 \\ 67 \\ 2 \\ 6 \\ 5 \\ 30$		· · · · · · · · ·	$152 \\ 304 \\ 209 \\ 132 \\ 2 \\ 195 \\ 39 \\ 286 \\ 1,542 \\ 194 \\ 194 \\$	$ \begin{array}{c} 162\\ 91\\ 62\\ 2\\\\ 67\\\\ 12\\\\ 42\\ 421\\ \end{array} $	· · · · · · · · · · · · · · · · · · ·	1  1 	   	$\begin{array}{c} 317\\ 179\\ 402\\ 128\\ 13\\ 89\\ 95\\ 24\\ 219\\ \cdots\\ 61\\ 268\\ 787\\ \end{array}$	$\begin{array}{r} 631\\ 313\\ 467\\ 463\\ 25\\ 416\\ 417\\ 68\\ 478\\ 3\\ 45\\ 862\\ 1,360\end{array}$	216 47 178 54	$ \begin{array}{c} 17 \\ 41 \\ 24 \\ 160 \\ 14 \\ 7 \\ 11 \\ 83 \\ \end{array} $	$\begin{array}{c} 1,162\\ 1,434\\ 933\\ 46\\ 614\\ 1,061\\ 156\\ 1,026\\ 5\\ 510\\ 3,512\\ \end{array}$
Total cars	48	181	92	3	3,055	1,110		2	4	2,582	5,548	1,956	343	14,924

# Ехнівіт В-2.

# Inspection on Arrival—By Railroads.

				SPRIN	G Wн	EAT.				MI WF	XED IEAT.	
RAILROADS.	ra	do- do leat.	Hard				Not G	Wh	ite.			Total Cars.
	2	3	. 2	2	3	4	Grad'd	2	3	2	3	
C., B. & Q C., R. I. & P	2	••••	2	$312 \\ 296$			76 12	$3 \\ 1$			$\frac{36}{5}$	2,704 738
C. & A. Ill, Cent Galena Div. C. & N. W Wis, Div. C. & N. W.			•••••	$100 \\ 169 \\ 278$	$162 \\ 922 \\ 169$	$\frac{16}{323}$	18	···· 3	$     \begin{array}{r}       5 \\             -42 \\             -10 \\             -10 \\            $		5 4	14 294 1,4×1 501
Wabash C. & E. I. C., M. & St. P.	 1	 i		3 2,761	4 993	$41 \\ 2 \\ 227 \\ 227$	34	$\frac{\cdots}{2}$	 46	5	30	$9 \\ 4,100 \\ 70$
Wis. Cent C., St. P. & K. C A., T. & S. Fe Through and special	$1\\8\\1\\2$	4	1 1	237 3 3,266	$     46 \\     340 \\     15 \\     653   $	$7 \\ 109 \\ 26 \\ 130$	10	4 	$\begin{array}{c} \cdot\cdot\cdot \\ 28\\ 16\\ 21 \end{array}$	$\frac{1}{2}$	1 1 1	$70 \\ 727 \\ 74 \\ 4,095$
Total cars	14							16	615	14	83	

# Ехнівіт В-З.

# Inspection on Arrival—By Railroads.

				C	ORN.					
RAILROADS.		Yelloy	w.	Wh	ite.				Not G	Total Cars.
	1	2	3	2	3	2	3	4	Grad'd	
C., B. & Q. C., R. I. & P. C. & A. Ill. Cent Gal. Div. C. & N. W. Wabas-h. C. & E. I C. M. & St. P. Wis. Cent C., St. P. & K. C A., T. & S. Fe Through and special	· · · · · · · · · · · · · · · · · · ·	3,821 2,213 859 2,953 1,618 8 -806 14 1,271 	1,082	829 361 475 672 59 6 219 18 112  151 449 612	6666 230 281 618 143 25 25 25 88  108 293 1,278	$\begin{array}{c} 10,309\\ 2,585\\ 2,588\\ 3,209\\ 1\\ 535\\ 9\\ 4,152\\ \dots\\ 4,014\\ 5,843 \end{array}$	1,4601,6793,1601778412,58712,6914,117	$\begin{array}{c} 986\\ 848\\ 1,876\\ 668\\ 1\\ 1,305\\ 126\\ 482\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$96 \\ 42 \\ 257 \\ 21 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ .$	$\begin{array}{c} 32,757\\ 23,844\\ 7,479\\ 12,584\\ 10,286\\ 21\\ 4,977\\ 314\\ 9,470\\ 1\\ 8,458\\ 13,534\\ 23,737\end{array}$
Total cars	2	17,157	18,601					14,206		

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# EXHIBIT B-4.

			OAT	rs.					Ry	Е.		
RAILROADS.		White	ə	2	3	Not G	Total Cars.	1	2	3	Not G	TOTAL CARS.
	1	2	3	-	J	Grad'd		1	4	J	Grad'd	
C., B. & Q C., R. I. & P C. & A.	i	$4,542 \\ 3,446 \\ 372$	$2,7.0 \\ 5,491 \\ 691$	$1,610 \\ 548 \\ 496$	$417 \\ 486 \\ 75$	37 71 19	$9,326 \\ 10,043 \\ 1,653$	1	880 396 98	342 221 30	$20 \\ 14 \\ 2$	632
Ill. Cent. Gal. Div. C. & N. W	····i	1,655 2,975 1,517	$ \begin{array}{r}     0.001 \\     2,002 \\     3,934 \\     744 \end{array} $	1,555	402 473 60	19 18 48 10	5,632 8,482	$\frac{\cdots}{2}$	293 453 231	71 116	i	$\frac{364}{572}$
Wabash C. & E. I C. M. & St. P		$\begin{array}{c} 140 \\ 4 \\ 6,484 \end{array}$	$429 \\ 60 \\ 4,598$	193     35	$124 \\ -46 \\ 517$		$894 \\ 151 \\ 13,011$	····. •····	$56 \\ 10 \\ 642$	$22 \\ 30 \\ 8 \\ 132$	C110 C010	20 788
C., St. & K. C A., T. & S. Fe		814 719	765	750	$     \begin{array}{r}       10 \\       258 \\       186 \\       199     \end{array} $	5 14	$92 \\ 2,957 \\ 2,434 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\ 1,694 \\$	 	5 99 64	$     \begin{array}{c}       2 \\       69 \\       30 \\       152     \end{array} $	$\begin{array}{c} 1 \\ 1 \\ 22 \end{array}$	8 168 95
Through and special Total cars	<u></u> 2	$\frac{3,331}{25,999}$	6,737 29,566	3,366 11,722	1,128 4,182	43 326		12	450 3,677	153 1,226		

# Inspection on Arrival—By Railroads.

EXHIBIT B-5.

### Grand cars kinds BARLEY. Total cars Bay Not graded Chevnd total 3 of all ds of grain Brew-RAILROADS. alier. ing. $\mathbf{2}$ 3 $\mathbf{5}$ 4 3 $\mathbf{2}$ 3 $\mathbf{2}$ C., B. & Q.... C., R. I. & P... C. & A. Ill. Central ..... Gal. Div. C. & N. W... Mobach $\begin{array}{r} 48,433\\ 38,432\\ 10,721\\ 21,832\\ 25,404\\ 7,079\\ 7,039\\ 6,15\end{array}$ $\substack{653\\1,213\\5}$ 1,021 2,013 $\begin{array}{c} 17 \\ 24 \\ 1 \end{array}$ 302 43 6 637 108 31 . . . . 11 2,025 4,537 3,171 5 8 17 • • • 69 837 3,559 2,628 2 1,111 906 9 3 . . . . . . 46 . . . . 382 7 48 110 Mo. DN. C. & N. W. Wabash C. & E. I. C., M. & St. P. Wis. Central... C., St. P. & K. C. A. T. & S. Fe Through and special.... 9 . . . . • • $\ddot{2}$ $\tilde{2}$ 645 .... ··:; 3 1,00829 177 . . . 3,617 . 73 78213 4,779 149 33,174 $\frac{\cdots}{2}$ . . . . 32513,311 19,660 46,901 2 i 113 310 .... 'n . . . 491 . . . . . . . . 11 757 5 6 $\dot{25}$ 73 12 256391 .... 4,960 Total cars..... $\mathbf{2}$ 2 1 83 13,199 472 257 18.976 272.956

# Inspection on Arrival-By Railroads.

# EXHIBIT C.

Inspection on Arrival—By Canal and Lake—Bushels.

	7	VINTE	R WH	EAT.		Spi	RING WH	EAT.
Turk- ish.		Red	Winte	r.	Total			Total
3	2	3	4	Not graded	els.	2	3	bush- els.
	4,296	7 400	5,000			61 966	•••••	61.966
		53,102	400		53,502	17,526 97,869	• • • • • • • • • • •	17,526 97,869
}						16,250	9,079	21, 329
8,000		7.471			$8,000 \\ 14,971$			
								390,657
	ish. 3 	Turk- ish.         4.296           3         2	Turk- ish.         Red           3         2         3	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	ish.         Red winter.           3         2         3         4         graded	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

# Exhibit C—Continued.

Inspection on Arrival—By Canal and Lake—Bushels.

					Cor	RN.			
Months.	Yel	low.	WI	nite.				Not	Total
	2	3	2	3	2	3	4	graded	bush- els.
November, 1889 December, 1889					84,150				100,650 4,500
March, 1890 April, 1890			••••		149,891	75,411 203,954	19,900		75,41 377,24
May, 1890 June, 1890 July, 1890	31,511		4,200		354,717	227,800 52,000 128,528	1,800		$234,40 \\ 467,26 \\ 569,33$
August, 1890 September, 1890 October, 1890	44,777	$8,100 \\ 68,500$			348,509	169,553 187,700		6,705	653,673 835,498
Total bushels.				6,100		1,168,511			

|--|

# Exhibit C-Continued.

# Inspection on Arrival—By Canal and Lake—Bushels.

			OATS.			Rye.			<i>a</i>
Months.	Whi	ite.	2	3	Total		0	Total	Grand total bush-
	2	2	2	5	bush- els.	2	3	bush- els.	els.
November, 1889 December, 1889 March, 1890 April, 1890 May, 1890 June, 1890 July, 1890 August, 1890 September, 1890 October, 1890	18,970 395,427 316,432 175,519 71,500 23,130	5,347	$\begin{array}{c} 70,222\\ 1,600\\ 119,393\\ 16,500\\ 12,800\\ 21,500\end{array}$	8,600  1,700	$\begin{array}{c} 94,539\\76,200\\645,320\\407,382\\201,019\\91,800\\74,830\end{array}$	$\begin{array}{c} 13,300\\ 19,550\\ 22,490\\ 11,259\\ \dots\\ 68\end{array}$	125	$13,300 \\ 19,675 \\ 22,490$	81,830 187,476 618,116 1,048,062
Total bushels	1,000,978	387,297	259,015	12,300	1,659,590	66,667	5,710	72,377	5,962,140
Total number of boats					•••••				610

# Exhibit D.

# Inspection from Store.

	Winter wheat. Bushels.	Spring wheat. Bushels.	Corn. Bushels.	Oats. Bushels.	Rye. Bushels.	Barley. Bushels.	Total. Bushels.
November, 1889 December, 1889 January, 1890 February, 1890 April, 1890 June, 1890 June, 1890 June, 1890 September, 1890 Cotober, 1890 Total	$585, 821 \\128, 802 \\157, 331 \\161, 385 \\396, 540 \\253, 670 \\143, 448 \\270, 553 \\421, 397 \\787, 529 \\236, 441 \\565, 691 \\\hline4, 108, 468$	$\begin{array}{c} 313,978\\ 482,490\\ 299,033\\ 431,864\\ 131,822\\ 153,731\\ 817,931\\ 321,521\\ 587,889\\ 232,647\\ \end{array}$	$\begin{array}{c} 1,541,851\\ 8,595,147\\ 6,467,687\\ 7,233,948\\ 8,286,837\\ 6,262,793\\ 7,394,220\\ \end{array}$	$\begin{array}{c} 2,030,714\\ 329,276\\ 3.77,297\\ 162,056\\ 1,451,870\\ 3,736,412\\ 3,810,929\\ 1,210,394\\ 986,034\\ 1,405,709\\ 1,139,646\\ \hline 16,839,843\end{array}$	$\begin{array}{c} 123,233\\71,782\\14,244\\83,726\\245,850\\277,580\\303,305\\114,454\\26,223\\67,904\\90,198\\ \hline \end{array}$	$\begin{array}{c} 120,326\\ 160,792\\ 113,126\\ 98,100\\ 127,863\\ 117,985\\ 82,304\\ 1,720\\ 4,459\\ 82,281\\ 507,760\\ \end{array}$	

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# EXHIBIT E.

	Inspection Fees Earned.	Commissions paid Rail- roads and Elevators.	Total Cash Received.	Disburse- ments for Expenses.	Bank Balance.
November, 1889 December, 1889 January, 1890 February, 1890 March, 1890 June, 1890 July, 1890 September, 1890 October, 1890 Totals	$\begin{array}{c} \$9,540\ 70\\ 7,108\ 88\\ 5,607\ 62\\ 5,129\ 53\\ 8,105\ 95\\ 11,482\ 52\\ 14,904\ 56\\ 13,144\ 00\\ 12,225\ 22\\ 12,531\ 68\\ 14,189\ 14\\ 12,622\ 69\\ \hline \\ \$126,651\ 89\\ \end{array}$	$\begin{array}{r} 442\ 52\\ 257\ 73\\ 187\ 69\\ 176\ 64\\ 373\ 10\\ 517\ 02\\ 640\ 85\\ 628\ 92\\ 561\ 14\\ 556\ 80\\ 641\ 72\\ \end{array}$	$\begin{array}{c} \$14,023 & 01\\ 9,489 & 48\\ 7,088 & 32\\ 5,231 & 04\\ 4,977 & 31\\ 8,441 & 13\\ 10,973 & 14\\ 13,810 & 71\\ 12,950 & 94\\ 11,680 & 85\\ 11,823 & 87\\ 13,432 & 51\\ \hline \\ \$123,922 & 31\\ \end{array}$	$\begin{array}{c} 9,920\ 78\\ 10,228\ 73\\ 9,662\ 20\\ 9,483\ 70\\ 9,492\ 511\\ 9,641\ 25\\ 10,100\ 91\\ 9,940\ 83\\ 9,887\ 63\\ 9,897\ 92\\ \hline\end{array}$	$\begin{array}{c} \$59,728 & 80\\ 59,049 & 46\\ 56,217 & 00\\ 51,219 & 31\\ 46,534 & 42\\ 45,491 & 85\\ 47,062 & 48\\ 51,231 & 94\\ 54,081 & 97\\ 55,821 & 99\\ 57,758 & 23\\ 61,292 & 82\\ \hline\end{array}$

# Financial Statement.

# P. Bird Price, Chief Inspector,

IN ACCOUNT WITH ILLINOIS STATE GRAIN INSPECTION DEPARTMENT.

October 31, 1890 October 31, 1890 October 31, 1890 October 31, 1890	To balance on hand as per last report To cash received during the year as shown above. By expense Inspection Department By expense Registration Office By expense Committee of Appeals By balance on hand	123,922-31	
	Total	\$180,459 14	\$180,459 14

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INSPECTION ON ARRIVAL.—Comparative Statement of Inspection from 1880 to 1890, inclusive.

Total. Bushels.	$\begin{array}{c} 138, 896, 368\\ 124, 109, 603\\ 124, 109, 603\\ 137, 418, 846\\ 137, 418, 846\\ 131, 7529, 563, 453\\ 131, 7529, 563, 452\\ 131, 753, 519, 452\\ 131, 529, 452\\ 131, 529, 452\\ 131, 529, 452\\ 131, 526, 710\\ 137, 570, 447\\ 137, 570, 447\\ 204, 506, 701\\ \end{array}$
Barley. Bushels.	3, 901, 576 4, 177, 762 4, 177, 762 6, 821, 316 6, 821, 316 8, 822, 744 10, 202, 360 10, 202, 300 10, 202, 30
Rye. Bushels.	1,645,545 1,221,843 1,221,843 4,990,000 4,990,000 3,722,180 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,846 1,114,8461,114,846 1,114,846 1,114,8461,114,846 1,114,8461,114,846 1,114,8461,114,846 1,114,8461,114,846 1,114,8461,114,846 1,114,8461,114,846 1,114,8461,114,846 1,114,8461,114,846 1,114,8461,114,8461,114,846 1,114,8461,114,8461,114,846 1,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,8461,114,
Oats. Bushels.	18, 873, 400 22, 612, 368 33, 302, 612, 368 33, 302, 189 38, 382, 189 38, 382, 189 38, 383, 600 38, 382, 617, 987 552, 617, 987 552, 512 568, 51258, 512568,
Corn. Bushels,	91, 185, 379 76, 017, 132 72, 258, 580 72, 258, 580 56, 700, 598 56, 770, 685 56, 770, 685 56, 770, 685 56, 770, 475 56, 370, 475 56, 370, 475 59, 991, 290
Spring wheat. Bushels.	17, 312, 968 N., 388, 187 N., 387 N., 397 N., 397 N, 397 N, 397 N, 397 N, 397 N, 397 N, 397 N, 3
Winter wheat. Bushels.	5, 887, 500 1, 682, 811 1, 682, 811 6, 953, 093 6, 953, 093 7, 955, 135 7, 955, 135 13, 665, 185 9, 126, 046
Boats. Number.	1,022 9507 607 851 851 851 851 851 851 851 851 851 851
Cars. Number.	270,524 277,119 212,213 212,213 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,223 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,233 213,23
Year.	1880 1882 1883 1885 1885 1885 1886 1886 1888 1889 1889

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INSPECTION FROM STORE-Comparative Statement of Out-Inspection from 1881 to 1890, inclusive.

Combined totals of in and out- inspection. Bushels.	210,094,497 158,668,139 158,668,139 187,749,140 177,349,140 177,348,149 905,755 206,837,890,263 217,890,263 276,827,896 230,2531,109
Total. Bushels.	86, 584, 894 62, 975, 366 73, 777, 578 55, 880, 778 55, 578, 929 45, 578, 929 45, 578, 929 105, 949 86, 744, 408 86, 744, 408
Barley. Bushels.	776,858 1,286,391 1,266,391 1,266,790 1,266,790 1,167,523 1,167,523 1,763,539
Rye. Bushels.	$\begin{array}{c} 1, 001, 231\\ 2, 001, 137\\ 2, 827, 002\\ 2582, 002\\ 665, 174\\ 884, 948\\ 394, 948\\ 1, 778, 321\\ 1, 778, 321\\ 1, 778, 321\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 253\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 256\\ 1, 666, 266\\ 1, 666, 266\\ 1, 666, 2$
Oats. Bushels.	9, 421, 724 5, 629, 482, 597 6, 615, 597 6, 615, 597 4, 764, 724 1, 818, 557 1, 818, 557 11, 818, 257 11, 818, 257 11, 839, 843 11, 839, 843
Corn. Bushels.	60, 285, 410 88, 137, 208 88, 137, 208 89, 607, 148 39, 661, 501 146, 620 31, 661, 501 31, 661, 503 31, 661, 503 31, 665, 620 31, 645, 620 35, 544, 584, 584, 584, 554, 584, 554, 584, 554, 584, 554, 584, 554, 584, 554, 584, 554, 55
Spring wheat. Bushels.	$\begin{array}{c} 18, 675, 941\\ 5, 854, 528\\ 5, 854, 528\\ 5, 854, 528\\ 5, 964, 124\\ 7, 715, 690\\ 17, 650, 918\\ 17, 650, 918\\ 17, 650, 918\\ 6, 365, 529\\ 3, 657, 529\\ 5, 657, 529\\ 3, 657, 529\\ 4, 900, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 471\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600, 500\\ 5, 600\\ 5, 600, 500\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 600\\ 5, 6$
Winter wheat. Spring wheat Bushels. Bushels.	$\begin{array}{c} 1,719,729\\ 5,201,755\\ 5,201,555\\ 5,201,505\\ 6,411,400\\ 1,501,665\\ 2,648,956\\ 6,010,271\\ 3,000,541\\ 9,156,010\\ 4,108,468\\ 4,108,468\\ \end{array}$
Year.	1881 1882 1883 1884 1886 1886 1886 1888 1888 1888 1888

# RULES

# GOVERNING THE INSPECTION OF GRAIN IN THE CITY OF CHICAGO, STATE OF ILLINOIS.

- IN FORCE DECEMBER 1, 1890.

### RULE 1.-WINTER WHEAT.

No. 1 White Winter Wheat—shall be pure White Winter Wheat. or Red and White mixed: sound, plump, and well cleaned.

No. 2 White Winter Wheat—shall be White Winter Wheat, or Red and White mixed: sound and reasonably clean.

No. 3 White Winter Wheat—shall include White Winter Wheat, or Red and White mixed, not clean and plump enough for No. 2, but weighing not less than fifty-four pounds to the measured bushel.

No. 4 White Winter Wheat—shall include White Winter Wheat, damp, musty, or from any cause so badly damaged as to render it unfit for No. 3.

No. 1 Long Red Winter Wheat—shall be pure Red Winter Wheat of the long-berried varieties: sound, plump, and well cleaned.

No. 2 Long Red Winter Wheat—shall be of the same varieties as No. 1, sound and reasonably clean.

Turkish Red Winter Wheat—The grades of Nos. 1, 2 and 3 Turkish Red Winter Wheat shall correspond with the grades of Nos. 1, 2 and 3 Red Winter Wehat, except that they shall be of the Turkish variety.

In case of mixture of Turkish Red Winter Wheat with Red Winter Wheat, it shall be graded according to the quality thereof, and classed as Turkish Wheat.

No. 1 Red Winter Wheat—shall be pure Red Winter Wheat of both light and dark colors, of the shorter-berried varieties: sound. plump. and well cleaned.

No. 2 Red Winter Wheat—shall be Red Winter Wheat of both light and dark colors; sound and reasonably clean.

No. 3 Red Winter Wheat—shall include Red Winter Wheat not clean and plump enough for No. 2, but weighing not less than fifty-four pounds to the measured bushel.

No. 4 Red Winter Wheat—shall include Red Winter Wheat, damp, musty, or from any cause so badly damaged as to render it unfit for No. 3.

In case of the mixture of Red and White Winter Wheat, it shall be graded according to the quality thereof, and elassed as White Winter Wheat. No. 1 Colorado Wheat-shall be sound. plump and well cleaned.

No. 2 Colorado Wheat—shall be sound, reasonably clean, and of good milling quality.

No. 3 Colorado Wheat—shall include Colorado Wheat, not clean and plump enough for No. 2, but weighing not less than fifty-four pounds to the measured bushel.

### RULE 2 .- SPRING WHEAT.

No. 1 Hard Spring Wheat—shall be sound, plump, and well cleaned.

No. 2 Hard Spring Wheat—shall be sound, reasonably clean, and of good milling quality.

No. 1 Spring Wheat—shall be sound. plump, and well cleaned.

No. 2 Spring Wheat—shall be sound, reasonably clean, and of good milling quality.

No. 3 Spring Wheat—shall include all inferior, shrunken or dirty Spring Wheat, weighing not less than fifty-three pounds to the measured bushel.

No. 4 Spring Wheat—shall include Spring Wheat damp, musty, grown, badly bleached, or for any cause which renders it unfit for No. 3.

White Spring Wheat—The grades of Nos. 1, 2 and 3 White Spring Wheat shall correspond with the grades of Nos. 1, 2 and 3 Spring Weat, except that they shall be of the White variety, or shall contain 5 per cent. or more, of such White Wheat.

Black Sea and Flinty Pfife Wheat—shall in no case be inspected higher than No. 2, and Rice Wheat no higher than No. 4.

### RULE 2¹/₂.—MIXED WHEAT.

The grades of Nos. 2 and 3 Mixed Wheat shall be equal in quality to the grades of Nos. 2 and 3 Red Winter Wheat, except that they shall include mixtures of Spring and Winter Wheat.

### Rule 3.—Corn.

No. 1 Yellow Corn-shall be yellow, sound, dry, plump and well cleaned.

No. 2 Yellow Corn—shall be three-fourths yellow, dry, reasonably clean, but not plump enough for No. 1.

No. 3 Yellow Corn—shall be three-fourths yellow, reasonably dry and reasonably clean, but not sufficiently sound for No. 2.

No. 1 White Corn-shall be sound, dry. plump. and well cleaned.

No. 2 White Corn—shall be seven-eighths white, dry, reasonably clean, but not plump enough for No. 1.

No. 3 White Corn—shall be seven-eighths white, reasonably dry and reasonably clean, but not sufficiently sound for No. 2.

No. 1 Corn—shall be Mixed Corn, of choice quality, sound, dry, and well cleaned.

No. 2 Corn—shall be Mixed Corn, dry, reasonably clean, but not good enough for No. 1.

No. 3 Corn—shall be Mixed Corn, reasonably dry and reasonably clean, but not sufficiently sound for No. 2.

No. 4 Corn—shall include all Corn not wet or in heating condition that is unfit to grade No. 3.

### RULE 4.-OATS.

No. 1 White Oats—shall be white, sound, clean, and reasonably free from other grain.

No. 2 White Oats—shall be seven-eighths white, sweet, reasonably clean, and reasonably free from other grain.

No. 3 White Oats—shall be seven-eighths white, but not sufficiently sound and clean for No. 2.

No. 1 Oats—shall be Mixed Oats, sound, clean, and reasonably free from other grain.

No. 2 Oats—shall be sweet, reasonably clean, and reasonably free from other grain.

No. 3 Oats—shall be all Oats that are damp, unsound, dirty, or from any other cause unfit for No. 2.

### RULE 5.-RYE.

No. 1 Rye-shall be sound, plump and well cleaned.

No. 2 Rye—shall be sound. reasonably clean, and reasonably free from other grain.

No. 3 Rye—All Rye damp, musty, dirty, or from any cause unfit for No. 2, shall be graded as No. 3.

### RULE 6.—BARLEY.

No. 1 Barley—shall be plump, bright, clean, and free from other grain. No. 2 Barley—shall be sound, of healthy color, not plump enough for No. 1, reasonably clean and reasonably free from other grain.

No. 3 Barley-shall include slightly shrunken and otherwise slightly damaged Barley, not good enough for No. 2.

No. 4 Barley—shall include all Barley fit for malting purposes, not good enough for No. 3.

No. 5 Barley—shall include all Barley which is badly damaged, or from any cause unfit for malting purposes, except that Barley which has been chemically treated shall not be graded at all.

Scotch Barley—The grades of Nos. 1, 2 and 3 Scotch Barley shall correspond in all respects with the grades of Nos. 1, 2 and 3 Barley, except that they shall be of the Scotch variety.

Bay Brewing Barley—The grades of Nos. 1, 2 and 3 Bay Brewing Barley shall conform in all respects to the grades of Nos. 1, 2 and 3 Barley, except that they shall be of the Bay Brewing variety grown in the territories and on the Pacific Coast.

Chevalier Barley—The grades of Nos. 1, 2 and 3, Chevalier Barley shall conform in all respects to the grades of Nos. 1, 2 and 3 Barley, except that they shall be of the Chevalier variety grown in the territories and on the Pacific Coast.

### RULE 7.

The word "new" shall be inserted in each certificate of inspection of a newly harvested crop of Oats until the 15th of August; of Rye until the 1st day of September: of Wheat until the 1st day of November, and of Barley until the 1st day of May of each year. This change shall be construed as establishing a new grade for the time specified, to conform in every particular to the existing grades of grain, excepting the distinctions of "new" and "old."

### RULE 8.

All grain that is warm, or that is in a heating condition, or is otherwise unfit for warehousing, shall not be graded.

### RULE 9.

All inspectors shall make their reasons for grading grain, when necessary fully known by notations on their books. The weight alone shall not determine the grade.

### **RULE 10.**

Each inspector is required to ascertain the weight per measured bushel of each lot of wheat inspected by him, and note the same on his book.

### RULE I.-HOURS OF SERVICE.

Assistant Inspectors and Helpers will be at their posts and ready for business at the railroad tracks, or at the elevators to which they are assigned, from 7 o'clock A. M. until 6 o'clock P. M. of each day, from the 15th day of March to the 15th day of November, and from 8 o'clock A. M. until 5 o'clock P. M. during the remainder of the year.

### RULE II.-EARLIER HOURS.

When the receipts are large and the interests of the trade require an earlier inspection, all Assistant Inspectors and Helpers assigned to duty on the track will begin work at as early an hour as practicable.

### RULE III.-EVENING WORK.

Inspectors stationed at elevators will, when necessary to complete the cargo or shipment upon which they may be engaged, remain on duty as late in the evening as they can see to inspect grain safely.

### RULE IV.-WET WEATHER AND DARKNESS.

No Inspector stationed at an elevator is authorized to inspect out of store after dark or in wet weather, except on receipt, personally, or through the office of the Chief Inspector, of an order written upon the printed blanks, furnished by the Department, filled and signed by the owner of the grain, or his authorized agent, relieving such inspector of all responsibility for damage which may be caused by such wet weather, or loss by such errors as are liable to occur by reason of darkness; but in every case the Inspector must be personally present when the grain is actually delivered on board, making his report of the inspection after such actual delivery.

The Chief Inspector of Grain is hereby authorized to collect on and after November 1, 1889, on all grain inspected under his direction as follows:

For in-inspection, 25 cents per car-load; 10 cents per wagon or cart load; 40 cents per 1,000 bushels from canal boats; ‡ of 1 cent per bushel from bags.

For out-inspection, 50 cents per 1,000 bushels to vessels; 35 cents per car-load to cars; 35 cents per car-load to teams; or 10 cents per wagon load to teams.

P. BIRD PRICE, Chief Inspector.

### EXTRACT FROM THE RULES

### PRESCRIRED BY THE BOARD OF RAILROAD AND WAREHOUSE COMMISSIONERS FOR THE ADMINISTRATION OF THE DEPARTMENTS OF GRAIN INSPEC-TION AND WAREHOUSE REGISTRATION IN THE CITY OF CHI-

CAGO, AND IN FORCE FROM AND AFTER DEC. 3, 1887.

No claim for damages on account of error in the inspection of any lot of grain (except grain inspected from public warehouses in accordance with law) will be entertained or allowed by the Board of Railroad and Warehouse Commissioners, unless complaint of such inspection shall be made to the Chief Inspector before the grain in question shall be removed from the car in which it is inspected, or before it shall leave the jurisdiction of the Department.

Grain transferred from the car in which it was inspected to another, must be inspected after transfer, to entitle the owner to have any claim arising thereunder considered by the Board of Railroad and Warehouse Commissioners.

## REPORT OF WAREHOUSE REGISTRAR.

### OFFICE OF WAREHOUSE REGISTRAR, CHICAGO, ILL., November 1, 1890.

### Hon. John R. Wheeler, Chairman Railroad and Warehouse Commission, Springfield, Illinois:

**DEAR SIR:** I have the honor to submit the following report of the operations of this department during the year ending the 31st day of October, 1890, and to invite your attention to the information furnished by the tabular statements herewith presented for the consideration of your honorable board.

Exhibit "D" shows a comparative statement of the amout of grain received into store by the public warehouses of Chicago, from 1882 to 1890, both inclusive, and while it does not show a gain over the remarkably prosperous year of 1889, it establishes the fact of the continued popularity of our system of inspection and warehousing of grain, by showing an excess of receipts into store over the average, for the past eight years, of 16,898,472 bushels, and an excess of shipment out of store over average covering same period of 16,374,971 bushels.

As it frequently occurs that the managers of warehouses find themselves short on certain kinds and grades of grain, necessitating the purchase of a sufficient amount, which, with stocks in store, will satisfy outstanding receipts, and in other cases finding themslves in possession of an accumulation in excess of such an amount as to satisfy the receipts for certain grades, necessitating application to your honorable board through this office for permission to issue and have registered warehouse receipts for such overage, I desire to renew the recommendations in my reports for the years 1886–87–88–89 on the subject of an annual weighing over of all grain in store in public warehouses of class "A" as often as once during each year, at such times as when stocks in store are so low as to not seriously inconvenience the business of such warehouses.

On the 21st day of March last, your honorable board, through Secretary Paddock, instructed me to notify the proprietors of public warehouses, that in your opinion they should file separate bonds in the sum of \$10,000 for each warehouse operated by them, and that if they had not heretofore complied with this provision of the law they were requested to do so at once.

Following your instructions, on the 26th day of March I completed the notification to all proprietors controlling more than one elevator, and was immediately informed that the request was in the line of a greater security to the public and would be most cheerfully complied with.

I am pleased to say copies of the new bonds, certified by Henry Best, Clerk of the Circuit Court of Cook county, have been filed in this office by all firms affected by your order, in conformity with law.

-13 R. R.

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### CHANGE OF FIRMS.

The Munger Wheeler Elevator Co. changed to "City of Chicago Graia Elevators, Limited," under the management of P. B. Weare. The elevators controlled by this firm are Union, City, Fulton, Air Line, Galena, Iowa and St. Paul, with a total storage capacity of 5,590,000 bushels.

The Rock Island A. & B. Elevators, heretofore managed by Flint, Odell & Co., are now controlled, the "A" house by Chas. Counselman & Co., and the "B" house by C. B. Congdon & Co.

The National and St. Louis Elevators, operated by D. L. Seymour & Co., changed to National Elevator and Dock Co.

### STORAGE CAPACITY.

Total storage capacity of Chicago elevators October 1, 1889, was 28,970,-000 bushels. During the year covered by this report that amount has been decreased 630,000 bushels by the withdrawal of the Northwestern and Sibley "B" Elevators, which are now operated as cleaning houses, and not licensed as public warehouses.

The total storage capacity at this time of the twenty-five public warehouses being 28,340,000 bushels.

### RECEIPTS.

Total amount of all kinds of grain received into store during the year, in warehouses of class "A," as presented in Exhibit "A"-7, was 83,-521,433 bushels, from 125,502 cars, 439 canal boats, and 6 vessels.

The receipts for 1,372 cars, six canal boats and one vessel included in above totals were not presented for registration.

A comparison of receipts into store during the year with the preceding year, 1889, shows a decrease of 23,032 cars and twenty-six canal boats, aggregating a total decrease of 15,114,429 bushels.

### SHIPMENTS.

Total amount of all kinds of grain shipped out of store during the year was 85,895,930 bushels. A decrease of 15,810,300 from the total of shipments during the year 1889.

### INSPECTION.

Total number of cars graded by the Inspection Department during the year was 272,956, an increase of 23,073 cars over number inspected during the year 1889; 125,502 being the total number received into store, the remaining 147,454 cars was either sold on track or shipped to seaboard without transfer to elevators.

### CAR AVERAGES.

The following will show the average number of bushels of each kind of grain received from cars during the year:

Wheat Corn. Oats Rye. Barley.	604	 · · · · · · · · · · · · · · · · · · ·

### APPEALS.

Your Committee of Appeals to which was referred 967 cases during the year sustained the inspection of the department in 451 cases, and raised the grade from that of the original inspection in 516 cases.

A decrease from total number of appeals taken during the year 1889, of 864 cases. This showing is proof of the continued and increased efficiency of the inspectors.

### AMENDED RULES.

Upon my recommendation, your honorable board on the 17th day of January last, adopted the following, which has been in force since that date:

Amend rules for the government of the Committee of Appeals established by the Board of Railroad and Warehouse Commissioners, and in force from and after November I. 1889, by inserting therein the following after Rule III.:

### RULE IV.

1. When an appeal has been taken upon any car of grain, and the Committee of Appeals has been unable, after proper search, to find said car upon the day such appeal is taken, it shall be the duty of said committee to make diligent search for such car in the proper yards on the first business day thereafter, and if not then found. the appellant may withdraw the appeal and the deposit made thereon, but not before.

2. When it shall occur that the appellant gives a wrong number or other erroneous information to the committee in making an appeal, and the committee acting upon such information shall make search for cars so appealed upon, then the fees so deposited shall be forfeited exactly as if an adverse decision has been reached.

Change Rules IV and V to Rules V and VI, respectively.

### GRAIN IN STORE.

The total amount of each kind of grain in store at this time is:

Wheat Corn. Oats Bye	1,568,191 778,165 318,726	
Barley.	598,521	**

Our relations with the managers of warehouses and patrons of this office continue to be pleasant and satisfactory. I ask for the employés who are competent and faithful, a continuance of your official favor.

Respectfully submitted,

J. W. BURST, Warchouse Registrar.

A-1.	
EXHIBIT	

	Total.	237, 987 237, 987 174, 579 104, 679 104, 679 104, 679 14, 679 14, 679 14, 679 174, 679 176, 478 576, 478577777777777777777777777777777777777	4,824,246
	N. G,	1, 170 1, 675 1, 645 377 9, 139 3, 142 3, 142 3, 747	19, 893
	4 Red.	2, 984 12, 200 2, 215, 215, 215, 215, 215, 215, 215, 21	308, 315
	3 Red.	62, 215 44, 215 48, 254 44, 215 317, 218 317, 208 317, 20	1, 339, 985
;	2 Red.	$\begin{array}{c} 79,639\\ 124,949\\ 58,265\\ 58,265\\ 1010,604\\ 1010,604\\ 1010,6024\\ 1101,082\\ 1010,024\\ 1010,024\\ 1010,024\\ 1010,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\ 100,024\\$	1,139 1,503,817 1,339,985
mar for	1 Red.	412 727	1,139
1000111	3 Turk- ish Red.	$\begin{array}{c} 23,974\\ 55,659\\ 5,935\\ 5,761\\ 2,935\\ 2,761\\ 2,938\\ 137,764\\ 7,968\\ 137,764\\ 7,968\\ 7,968\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7,932\\ 7$	346,222
TAATT	1 Turk- 2 Turk- 3 Turk- ish Red. ish Red. ish Red.	67,466 70,818 70,818 44,314 27,071 239,5910 23910 23910 23910 23,108 238,213 683,213 244,196 44,196	671 1,248,288
	1 Turk- ish Red.	530 671 121	129
ne ont	e. ² Long is	380	504
The second is the second of the second	4 White.	1,060	6, 200
017	White. 3 White. 4 White.	3,669 3,669 404 16,298 1,106 2,459 2,459 15,190	40,915
	2 White.	542 1,542 1,478 1,478 3,716	8, 297
	Warehouses.	Central BC. and D C., B. and Q. C. and D City, Union and St. Paul lowa Alton Alton Santa Fe Santa Fe Rock Island B. National and St. Louis National and St. Louis Puelly Illinois River Pacific B.	Totals

Receipts into Store-Winter Wheat by Rail.

See Exhibit A-8.

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191	1	9	$\overline{7}$
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Warehouses.	2 Turk- ish Red.	3 Turk- ish Red.	3 Red.	4 Red.	N. G.	Total.
City Indiana Alton St. Louis Neely.	4,348	3,940 2,776	17,213 6,705 37,665	•••••	3,300	$\begin{array}{r} {2,870} \\ {23,240} \\ {6,705} \\ {44,789} \\ {3,300} \end{array}$
Totals					3,300	80,904

# Winter Wheat by Canal.

Whea
Winter
pments-
Shi

t.

Total.	197, 251 257, 617 257, 617, 617 257, 617 257, 617 257, 617 257, 617 257, 617 257, 61
N. G.	1,170 2,337 2,337 11,622 11,622 11,692 1,642
4 Red.	$\begin{array}{c} 4, \\ 8, 341\\ 10, 552\\ 10, 552\\ 10, 552\\ 10, 552\\ 10, 552\\ 10, 528\\ 10, 2528\\ 10, 2457\\ 10, 457\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\ 10, 649\\$
3 Red.	$\begin{array}{c} 66, 658\\ 574, 776\\ 574, 795\\ 58, 5596\\ 8, 5936\\ 8, 5936\\ 8, 5936\\ 8, 5936\\ 13, 312\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\ 3712\\$
2 Red.	49,400 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,139 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27
1 Red.	727
³ Turk- ish Red.	$\begin{array}{c} 21,522\\ 1,521\\ 1,527\\ 1,727\\ 22,749\\ 32,159\\ 32,159\\ 32,159\\ 32,159\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\ 315,738\\$
2 Turk- ish Red.	53, 560 43, 340 6, 943 143, 340 143, 340 148, 340148, 340 148, 340148, 340 148, 340 148, 340 148, 340, 340148, 340, 340, 340, 340, 340, 340, 340, 340
1 Turk- ish Red.	<u>129</u> 
² Long Red.	124
4 White.	6,923
3 White. 4 White.	$\begin{array}{c} 3,669\\ 3,425\\ 16,298\\ 1,126\\ 569\\ 2,59\\ 2,59\\ 2,59\\ 15,645\\ 15,645\\ 15,645\\ 15,645\\ 15,645\\ 15,645\\ 15,645\\ 15,645\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 1020\\ 102$
2 White.	756 756 1,542 1,542 1,533 1,178 1,533 1,178 1,533 1,178 1,533 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,5344 1,5344 1,5344 1,5344 1,5345 1,5344 1,5344 1,5345 1,5345 1,5345 1,5345 1,5345 1,5345 1,5345 1,
Warehouses.	Central B. C. and D. C., B. & Q., C. and D. C., B. & Q., C. and D. Urion. St. Paul and City . Galena and Iowa. Indiana. Indiana. Arnour Santa Fe. Santa Fe. Arnour Brock Island B. Touis. Pacific B. St. Louis. Neely. Totals. Totals.

# EXHIBIT A-2.

# Receipts into Store-Spring Wheat by Rail.

Warehouses.	2 Hard	¢1	3	4	N. G	3 White	3 Mixed	2 White	2 Mixed	Total
Central B C., B. & Q., C and D. City and St. Paul Air Line, Galena and Indiana Alton Armour Santa Fe Rock Island A. Rock Island B. Nation ¹ & St. Louis Neely Pacific B. Illinois River Totals.	399 922	$\begin{array}{c} 33,782\\92,690\\361,766\\433,434\\63,980\\01,165,116\\1,342,919\\324,362\\175,839\\4,321\\77,395\\33,117\\75,94,009\\38,821\\\hline4,741,551\end{array}$	47,637 54,084 23,849 3,607 105,823 65,886 34,997 12,818 394  12,314 15,301 110,234	$\begin{array}{c} 61,178\\ 9,135\\ 4,368\\ 6,433\\ 24,990\\ 15,493\\ \hline 1,689\\ 509\\ \hline 8,155\\ \hline 45,144\\ \end{array}$	1,383 575 2,002 7,277 568  548 3,714	5,524 1,549 1,045 8,059 16,855 2,088 1,082 1,172 707 15,568	1,320 5,422 1,594 473 1,011 5,793	1,737 567 1,345		$\begin{array}{r} 40,093\\ 256,366\\ 435,931\\ 463,775\\ 78,661\\ 1,311,265\\ 1,443,931\\ 360,306\\ 193,913\\ 6,306\\ 193,913\\ 6,306\\ 78,567\\ 56,574\\ 609,310\\ 220,619\\ 5,555,617\\ \end{array}$

See Exhibit A-8.

# Spring Wheat by Canal.

Warehouses.	2	3	Total.
Union.	41,850		41,350
Alton	40,929		74,849
Armour	20,729		20,729
St. Louis	9,732		9,732
Totals	112,740		146,660

# Shipments—Spring Wheat.

Warehouses.	2 Hard	2	లు	4	N. G	2 White	3 White	3 Mixed	Total.
Central B C., B. & Q., B. C. D., Union St. Paul & City Galena & Iowa Indiana. Alton Santa Fe Armour Rock Island A Rock Island B National and St. Louis Pacific Neely Illinois River Totals	532 609 399 495 422	$\begin{array}{r} 243,591\\ 124,405\\ \\ 946,706\\ 308,752\\ 1,193,653\\ 43,145\\ -4,321\\ 25,612\\ 64,498\\ 15,718\\ 46,281\\ \\ \hline \end{array}$	56,941 56,994 21,787 3,358 122,064 34,997 71,150 19,017 394 67,163 11,440 129,090	67, 668 14, 455 6, 200 11, 693 27, 745 24, 904 5, 470 509 661 5, 037 36, 653	1,383 446 575 4,014  568  548 3,211	508 567 	5,524 1,549 3,284 8,059 53,352 2,737 1,082 1,172 490 267 16,350	602 5,422 1,594 473  1,011 5,840	$\begin{array}{r} 326, 432\\ 155, 048\\ 23, 943\\ 1, 105, 183\\ 344, 148\\ 1, 345, 103\\ 71, 358\\ 6, 306\\ 26, 784\\ 132, 812\\ 34, 021\\ 238, 725\\ \end{array}$

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E.

# Receipts Into Store-Corn by Rail.

Total.	673 673 673 6, 342, 322 6, 544 4, 105 4, 574 4, 574 4, 574 4, 574 4, 574 1, 593 1, 593 1, 433 4, 770 759 4, 770 759 4, 770 759 4, 770 759 4, 770 759 4, 770 759 759 759 759 759 759 759 759 759 759	564, 832
N. G.	<u> </u>	5,453 55,564,832
4		685, 095
5	1, 854, 545         851, 122           4, 577, 185         8, 828, 300           3, 012, 060         1, 361, 828           3, 012, 060         1, 361, 828           3, 012, 060         1, 361, 828           1, 570, 385         914, 889           2, 438, 973         2, 438, 978           2, 438, 973         2, 438, 973           2, 438, 973         2, 386, 677           2, 438, 973         2, 237, 756           4, 438, 973         2, 237, 756           4, 438, 973         2, 237, 756           4, 438, 973         2, 237, 756           4, 438, 973         2, 237, 756           4, 438, 973         2, 237, 756           4, 433, 103         2, 237, 756           337, 071         46, 169           337, 071         46, 169	779, 390 25, 282, 638 13, 635, 405
White.	196, 208 131,548 4, 1 25,1548 4, 1 25,1548 4, 1 25,548 2, 1 155, 2 155, 2 1,55 1,55 1,55 1,55 1,55 1,55 1,55 1,5	779, 390 25,
White.	$\begin{array}{c} 370, 870, 870\\ 354, 090\\ 325, 090\\ 320, 233\\ 112, 343\\ 101, 155\\ 97, 785\\ 97, 785\\ 961, 330\\ 961, 330\\ 961, 330\\ 11, 0141\\ 11, 0141\\ 11, 0141\\ 11, 012\\ 2259\\ 2330\\ 961, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11, 101\\ 11$	.637,751
Yellow.2	, 048, 882 , 236, 739 , 236, 739 , 238, 771 638, 771 722, 723 733, 752 733, 752 733, 752 733, 752 733, 752 733, 752 734, 752 744, 754, 754, 754, 754, 754, 754, 754,	8, 674, 562 4, 864, 038 1, 637, 751
Yellow.	1, 854, 7790 1, 854, 7790 867, 819 867, 819 867, 819 874, 819 874, 819 984, 757 984, 757 984, 757 984, 757 984, 757 984, 757 943, 384 944, 384 946, 384946, 384 946, 384, 384, 384, 38	,674,562 4
Yellow. 2 Yellow. 3 Yellow. 2 White. 3 White.	500	200
Warehouses.	& Annex	Totals

See Exhibit A-8,

Warehouses	2 Yellow	3 Yellow	2 White	2	3	4	N. G	Total.
City and Union Indiana . Armour . St. Louis . Neely Totals .	19,855 9,864	11,196 7,013 48,690	5,235 4,183	185,306 193,862	$235,568 \\ 3,942 \\ 131,702$	314	866 5,000	$\begin{array}{r} 656,248\\ 471,123\\ 10,955\\ 389,511\\ 5,000\\ \hline 1,532,837\end{array}$

Corn-By Canal.

3 llow.2 White.34N. G.Total.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4,968,213 1,659,482 767,127 26,453,915 14,027,513 684,142 13,389 57,398,561
Yellow. $\left  \begin{array}{c} 2\\ Yellow. \end{array} \right $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8,884,280 4,903,
Yellow.	5000	500
Warehouses.	Central A and B	Totals

SHIPMENTS-Corn.

# Ехнівіт А--4.

Warehouses.	$\frac{2}{2}$ White.	White.	2	3	N. G.	Total.
Central B. C. B. & Q., C and D. City, Union and St. Paul. Iowa and Galena. Indiana. Alton Armour. Santa Fe. Rock Island A. Rock Island B. National and St. Louis. Pacific B. Neely.	$\begin{array}{c} 401,565\\525,423\\525,545\\907,646\\43,384\\39,659\\1,444,014\\148,299\\1,137,305\\7,503\\70,416\\166,557\\37,186\end{array}$	$\begin{array}{c} 261,168\\ 251,033\\ 673,963\\ 95,254\\ 178,137\\ 1,036,008\\ 34,971\\ 1,655,861\\ 19,515\\ 164,129\\ 7,869\end{array}$	$516, 489 \\ 201, 624 \\ 439, 081 \\ 279, 113 \\ 31, 581 \\ 361, 218 \\ 145, 008 \\ 173, 493 \\ 143, 835 \\ \end{array}$	$\begin{array}{c} 4,378\\ 8,893\\ 4,169\\ 13,405\\ 2,050\\ 5,121\\ \end{array}$	1,364	$\begin{array}{c} 1,770,07\\ 1,313,13\\ 984,06\\ 2,025,06\\ 4254,31\\ 2,855,53\\ 330,32\\ 2,971,78\\ 9,71,78\\ 9,79,36\\ 359,95\\ 352,65\end{array}$
To'als	5,454,502	4,765,739	3,754,031	65,553	10,112	

# RECEIPTS INTO STORE—Oats by Rail.

Oats by Canal.

Warehouses.	White.	White.	2	3	N. G.	Total.
City and Union Indiana Alton Armour St. Louis Neely Totals	14,990 79,811 7,573	$     34,228 \\     44,285 $	7, 291 112, 421	1,672	3,018	56,509 47,303 286,643 7,573

# Shipments—Oats.

WAREHOUSES.	2 White.	3 White.	2	3	<b>N.</b> G.	Total.
Central B <u>C.</u> , B. & Q. C. & D	541.154	412,772	599,435	24,273	1	
Union, St. Paul & City Galena & Iowa Indiana & Wabash	$\begin{array}{c c} 613, 129 \\ 909, 753 \\ 208, 568 \end{array}$	720,888 306,415	401,738 304,166	4,378 51,486		870,635
Alton Santa Fe. Armour	203,375 1,584,513	109,485 1,156,916	148,505 410,099	2,050 13,405	3,906	463, 415 3, 168, 839
Rock Island A. Rock Island B. National & St. Louis. Pacific	7,503 145,614	20,187 223,083	1,777 242,794	2,653		29,467
Neely Sibly	71,628	35,499	196,703		633	
Totals	6,483,128	5,670,141	4,526,561	183, 268	7,970	16,871,068

# EXHIBIT A-5.

# RECEIPTS INTO STORE—Rye by Rail.

WAREHOUSES.	1	2	3	N. G.	Total.
Central B. C, B, & Q. D. City & Union & St. Paul. Iowa Indiana. Alton Armour Santa Fe. Rock Island A. Rock Island B. National & St. Louis. Pacific B. Neely. Totals	532	$\begin{array}{c} 102,516\\ 28,122\\ 1^{\circ}2,018\\ 167,534\\ 38,183\\ 104,856\\ 12,989\\ 21,485\\ 154,628\\ 72,814\\ \hline \end{array}$	38,662 4,657 15,299 29,282 1,130 9,112 6,673 965 8,954 101,439	239 3,490	94, 426 266, 190 112, 919 102, 516 43, 421 191, 300 169, 196 38, 183 114, 207 19, 662 22, 450 165, 582 177, 743 1, 515, 795

Rye by Canal.

WAREHOUSES.	2
Union	12, 368
Armour	2, 095
St. Louis	5, 035
Total	19, 49 <b>8</b>

SHIPMENTS-Rye.

WAREHOUSES.	1	2	3	N.G.	Total.
Central B. C., B. & Q., C. and D. Union, St. Paul, NW. and City Iowa. Indiana. Alton Santa Fe. Armour. Rock Island A. Rock Island A. Rock Island B. National & St. Louis. Pacific B. Neely.	532	$\begin{array}{c c} 224,827\\ 138,039\\ 72,249\\ 41,500\\ 165,423\\ 65,140\\ 348,883\\ 93,908\\ 14,678\\ 19,073\\ 117,214\end{array}$	47,648 4,657 2,276 22,291 20,886 8,158 10,455 6,673 933,267	•••••	$\begin{array}{c} 88,883\\ 272,475\\ 142,696\\ 74,525\\ 63,791\\ 186,309\\ 65,140\\ 357,573\\ 104,602\\ 21,351\\ 20,038\\ 150,481\\ 141,720\\ \end{array}$
Totals	532	1,405,798	281,515	1,739	1,689,584

# Ехнівіт А-6.

# RECEIPTS INTO STORE—Barley by Rail.

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WAREHOUSES.	2	3	4	5	N.G.	Total.
Central B C., B. & Q., D City, Union & St. Paul Iowa & Galena Indiana. Armour Santa Fe.	3,769 3,216 1,098		$13,206 \\ 126,395 \\ 102,255 \\ 35,993 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	7,129 15,506 295	2,918	$169,80 \\ 117,78 \\ 795,18 \\ 739,76 \\ 29 \\ 105,22 \\ $
Rock Island A Rock Island B Pacific B Neely Totals	10,648 2,238 25,328	35,033 2,562 1,436  1,592,544	1,946 	1,301	1,541	$ \begin{array}{r}     46,59 \\     8,04 \\     26,76 \\     1,54 \\     \hline     2.011,00 \\   \end{array} $

Shipments—Barley.

WAREHOUSES.	2	3	4	5	N.G.	3 Bay Brew- ing.	Total.
Central B C., B. & Q., D. St. Paul and City Galena and Iowa Indiana Pacific B Santa Fe Neely Armour Rock Island B Rock Island A Totals	2,460 1,216 16,603 21,407 4,236 2,238	561, 169 1, 436 1, 458 70, 369 7, 628 1, 943	8,471 117,219 128,252  2,518 32,403 8,423 912	2,584 7,937 16,722 295  1,906	1,541	600	$\begin{array}{c} 130,391\\ 39,633\\ 669,110\\ 722,746\\ 295\\ 22,843\\ 3,976\\ 1,541\\ 107,008\\ 20,195\\ 4,290\\ 1,722,028\end{array}$

# EXHIBIT A-7.

# GRAND TOTALS.

Warehouses.	Receipts by rail.	Shipments.
Central B. C. B. & Q., A. C. D. & Annex. City, Union & St. Paul. Air Line, Galena & Iowa. Indiana Alton. Armour. Santa Fe. Rock Island A. Rock Island B National & St. Louis. Pacific B. Nety. Illinois River. Sibley.	$\begin{array}{r} 8, 654, 707\\ 14, 252, 965\\ 7, 860, 480\\ 7, 576, 328\\ 5, 767, 910\\ 2, 636, 288\\ 10, 423, 231\\ 6, 506, 636\\ 11, 831, 914\\ 2, 377, 151\\ 2, 597, 334\\ 1, 454, 425\\ 1, 099, 684\\ 482, 377\\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ 83, 521, 433\\ \end{array}$	$\begin{array}{c} 8,754,160\\ 14,491,291\\ 8,484,261\\ 6,989,889\\ 6,626,588\\ 2,725,568\\ 10,936,885\\ 6,690,214\\ 11,289,503\\ 2,555,134\\ 2,555,134\\ 3,119,812\\ 1,399,976\\ 1,131,041\\ 490,334\\ 2911,244\\ \hline\end{array}$

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# Exhibit A - 7.—Continued.

RECEIPTS-By Canal.

Warehouses.	Bushels.
City & Union Indiana Alton St. Louis Neely Armour Total	138,063 735,710

# EXHIBIT $\Lambda$ -8.

Showing the amount of Grain transferred from one Warehouse to another.

Chi. Burlington & Quincy D. ''	From.	To.	2 Red winter wheat.	2 Spring wheat.	$c_{\rm orn.}^2$	Rye.	Bye.
Totals	Neely Santa Fe. Sante Fe. Alton. Alton. Wabash Chi. Burlington & Quincy A. St. Paul. City. Rock Island A. Chi. Burlington & Quincy D. Armour Pacific B. Iowa. Ohi. Burlington & Quincy D. Rock Island A.	Indiana. Illinois River, Alton . Sational St. Louis Neely Indiana. Neely i. i. i. i. i. i. i. i. i. i. i. i.	8,290	14,923 105,812 20,961 4,985 40,947 4,871	4,990 42,343 67,067 14,449 15,539	10,498 15,249 5,000	2,998 5,087 6,773

NOTE-The amount of grain, as shown in this exhibit, is included in the receipts and shipments.

# EXHIBIT A-9.

Showing the Number of Cars of each kind of Grain Received into the several Public Warehouses.

Warehouses.	Winter wheat.	Spring wheat.	Corn.	Oats.	Rye.	Barley.	Total.
Central B. C. B. & Q., A. B. C. D. City, Union & St. Paul. Air Line, Galena & Iowa. Indiana Alton. Armour. Santa Fe. Rock Island A. Rock Island B. National & St. Louis. Pacific Neely. Illinois River. Totals.	$515 \\ 22$	81 432 775 765 132 1,631 2,569 2,569 2,543 290 11 18 983 899 395 8,714	$\begin{array}{c} 9,717\\ 18,570\\ 8,635\\ 7,119\\ 7,933\\ 428\\ 8,429\\ 7,913\\ 13,317\\ 3,861\\ 12,672\\ 448\\ 484\\ 484\\ 2\\ \hline \end{array}$	2,085 415 205 2,937 322 2,829 27	440 178	1,102 1,088 1 	12, 447 21, 259 11, 882 11, 435 15, 411 10, 637 17, 220 3, 966 3, 970 2, 159 1, 284 880 125, 502

EXHIBIT B.

Showing the Number of Cars, Canal Boats and Vessels from which Grain was received into the several Public Warehouses of Chicago during the year ending October 31, 1890, and the number of said Cars, Canal Boats and Vessels, Warehouse Receipts for the contents of which have not been Registered.

NUMBER NOT REGISTERED.	Vessels Canal boats Cars	212 64 133 1332 163 163 16 16 16 16 16 16 133 16 10 133 16 11 133 29 6 1 1 37 10 10 10 10 10 10 10 10 10 10 10 10 10	
	Vessels	Q	=
NUMBER RECEIVED.	Canal boats	174 136 136 12 12 12 12 12 12 12 12 12 12 12 12 12	
IMUN	Cars	12,447 21,250 21,250 23,337 3,970 3,970 2,1150 15,411 10,677 3,325 3,357 11,254 1,254 1,254 1,254 1,254	
	Names of Warehouse.	Central A, B and Annex O., B, & Q., A, B, C. D and Annex. City, Fulton, Union, St. Paul, Air Line, Galena and Jowa Boek Island A Rock Island A Rock Island A Nathash and Indiana Nathonal & St. Louis Pacific B Arrour Samta Fe. Nationa Merer Nationa River Neely	
No. c	f warehouses.	010 F 0-000000	
	Names of Firms.	Central Elevator Co. Pole & Co. The City of Chicago Grain Elevators limited). Chas. Counselman & Co. Chas. Counselman & Co. Chas. Counselman & Co. Conguon & Co. Conguon & Co. Conguon & Co. Conguon & Pavile Elevator Co. National Elevator & Dock Go. Armonal Elevator & Co. Armonar Elevator & Co. Armonar Elevator Co. Armonar Elevator Co. Armonar Elevator Co. Illinois River Elevator Co. Illinois River Elevator Co. Illinois River Elevator Sank. Totals	

EXHIBIT C.

Showing the Number and Disposition of Appeals from the Decision of the Grain Inspection Department to the Committee of Appeals, during the year ending October 31, 1890.

Do+o	Wheat.	November, 1889. 45 December, 1889. 45 December, 1889. 26 February, 1890. 26 April, 1890. 27 March, 1890. 27 May, 1890. 27 May, 1890. 27 July 1890. 27 July 1890. 27 Arcust, 1890. 17 Arcust, 1890. 18	Totals
INSPECTION SUSTAINED.	Corn.	e268888320	190
	Oats.	1 1 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18
	Rye.		67
	Barley.		8
	Total.	7575888898 <b>8</b> 18	451
	Wheat.	488340088156 <u>1</u> 6	204
ų	Corn.	334 <u>4</u> 555555	250
(SPECTIO)	Uats.	5111 <u>80</u> 72 216	51
INSPECTION CHANGED.	Rye.	S 61	9
Đ.	Barley.		υ
	Total.	52692 <mark>48898</mark> 51	516

NOTE-Included in above are 1 canal boat of wheat and 3 canal boats of corn changed and 1 canal boat of wheat sustained.

EXHIBIT D.

Comparative Statement of the Amount of Grain Annually Received into Store by the Public Ware-houses of Chicago, from 1882 to 1890, both inclusive, and of the Number of Cars, Canal Boats and Vessels from which such Grain was received; also, the number of Bushels shipped from the Public Warehouses during said time. **▼** —14 R.

R.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.
Bushels received Bushels shipted Number of cars. Number of canal boats Number of vessels.	57, 687, 008 64, 331, 863 64, 331, 863 105, 440 18	78, 724, 751 73, 307, 290 73, 143, 946 164 10	57, 550, 974 59, 432, 864 103, 233 1	51, 175, 511 46, 178, 593 90, 404	$\begin{array}{c} 62, 022, 522\\ 61, 747, 078\\ 103, 597\\ 1 \end{array}$	68, 543, 823 75, 754, 811 108, 402 522	78,595,602 73,708,947 119,644 1	98, 635, 862 101, 706, 230 148, 534 465	86, 015, 478 85, 930 85, 895, 930 125, 502 439 6

A Statement Comparing the Number of Cars Annually Inspected on Track, from 1882 to 1890, both inclusive, with the Number Received in Store during the same Years.

					-				
	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.
_			-			-	-	-	
				0.000	001 100		010 110	940 000	970 076
Inspected on track.	171,218	235, 213	210, 822	212.270	201,103	108, 130	119.611	148.534	125,502
Received into store	109,440			FUE ON	Toologi				
Twenstod but not stored	65.778	91,267	107,589	121,866	97,146	80,728	92, 174	101,249	147,454
TTSheeted, but no solo and the state				-				-	

EXHIBIT E.

.

Storage Capacity of Chicago Elevators of Class A, at the date of this Report.

Capacity- bushels.	1, 000, 000 1, 500, 000 1, 500, 000 2, 500, 000 3, 500, 000 3, 500, 000 3, 500, 000 1, 450, 000 1, 500, 000 1, 50
Grain received from-	tral A       Contral Elevator Co       Illinois, Central Railroad         Iff a B       & Q. B       B       & Q. B         B. & Q. B       Dole & Co       Chicago, Burlington & Quinoy Railroad         B. & Q. D. and annex       Dole & Co       Chicago, Burlington & Quinoy Railroad         B. & Q. D. and annex       Dole & Co       Chicago, Burlington & Quinoy Railroad         D. A. D. and annex       The City of Chi. Grain El. (Lidi).       Chicago, & Northwestern         Dash       The City of Chi. Grain El. (Lidi).       Chicago, & Northwestern         Ons.       Chicago, Elevator Co       Chicago, & Northwestern         Paul       The Chicago Elevator Co       Chicago, Bulvaukee & St. Paul         Paul       Chicago, Brouthwestern       Chicago, Brouthwestern         Const.       Chicago, Broutor Co       Chicago, Routhwestern         Const.       Chicago, Milwaukee & St. Paul       Ender         Const.       Chicago, Milwaukee & St. Paul       Ender         Const.       Chicago, Milwaukee & St. Paul       Ender         In and annex.       Chicago, Milwaukee & St. Paul       Ender         Mation       Elevator and Dock Co       Chicago, Milwaukee & St. Paul         Onst.       Santa & Santa & Santa & Santa       Ender         Milwauke
Proprietors.	Central A.       Central Elevator Co       Illinois Central Italifoad         Contral B and amex       Dole, & Co       Chicago, Burlington & Quino;         C. B. & Q. B.       B. & Q. B.       Dole, & Co         C. B. & Q. C.       B. & Q. B.       Dole, & Co         C. B. & Q. D.       B. & Q. B.       Dole, & Co         C. D. B. & Q. D.       B. & Q. B.       Dole, & Co         C. D. B. & Q. D.       B. & Q. D.       Burlington & Quino;         C. D. B. & Q. D. and annex       The City of Chi. Grain El. (Lid).       Chicago, & Northwestern         Uton       Dole, & Co       Chicago, Milwaukee & St. Paul         Puton       Chicago, K. Northwestern       Chicago, Milwaukee & St. Paul         Wabash       B. Louis       Chicago, Rock Island & Pacific         Rook Island B       Chicago, Rock Island & Pacific       Chicago, Milwaukee & St. Paul         Wabash, St. Louis       Chicago, Milwaukee & St. Paul       St. Louis         Suata Fe       Chicago, Milwaukee & St. Paul       Chicago, Milwaukee & St. Paul         Matonal       Chicago, Milwaukee & St. Louis       Chicago, Milwaukee & St. Paul         Stata Fe       Chicago, Milwaukee & St. Louis       Chicago, Milwaukee & St. Louis         Neelly       Chicago, Milwaukee & St. Louis       Chicago, Milwaukee & St. Paul<
Names of Elevators.	Central A. Central A. Central B. & Q. B. & Q. B. & C. B. & Q. B. & C. B. & Q. B. & C. B. & C. B. & C. D. and annex C. B. & Q. D. and annex C. B. & Q. D. and annex Futton

#### EXHIBIT F.

Showing the Amounts of the Different Kinds of Grain and the Total Amount in Store in the Public Warehouses of Chicago, at the close of Each Week during the Year ending October 31, 1890.

Date.	Wheat.	Corn.	Oats.	Rye.	Barley.	Total.
1889. November 2 November 9 November 16. November 23 November 30	2, 599, 887 2, 841, 280 2, 989, 412 3, 468, 217 4, 055, 141	$1,569,620 \\957,676 \\862,222 \\826,311 \\1,000,862$	2,704,000 2,624,555 2,005,866 1,785,197 1,641,043	$\begin{array}{r} 461, 602\\ 392, 442\\ 383, 710\\ 365, 503\\ 393, 813 \end{array}$	334, 313 315, 641 231, 617 215, 907 224, 997	7,669,422 7,131,594 6,472,827 6,661,135 7,335,856
December 7 December 14 December 21 December 28	4, 421, 109 4, 753, 696 4, 954, 747 5, 038, 573	746,127782,837958,7481,355,121	1,691,471 1,754,111 1,776,503 1,724,972	$\begin{array}{r} 435,785\\ 442,306\\ 473,460\\ 458,119\end{array}$	245,626 292,219 333,617 322,835	7,540,118 8,025,169 8,497,075 8,899,626
1890. January 4 January 11. January 18 January 25	5, 104, 104 5, 236, 033 5, 175, 828 5, 043, 360	$\begin{array}{c} 1,780,639\\ 2,165,592\\ 2,246,048\\ 2,329,417 \end{array}$	1,708,571 1,754,292 1,652,033 1,502,887	487,465 520,344 529,815 562,287	320,242 310,554 299,404 276,526	9,401,02 9,986,81 9,903,128 9,714,477
February 1 February 8 February 15 February 22	5,066,177 4,988,822 4,868,826 4,695,096	2,482,958 2,486,292 2,576,916 2,739,840	1,509,413 1,501,730 1,501,538 1,461,408	$591,756 \\ 609,527 \\ 626,672 \\ 683,061$	256,287 225,072 244,675 285,890	9,906,591 9,811,443 9,818,62 9,865,295
March 1 March 8 March 15 March 22 March 29	$\begin{array}{c} 4,621,661\\ 4,426,256\\ 4,297,957\\ 4,259,068\\ 4,230,260 \end{array}$	$\begin{array}{c} 3, 192, 911 \\ 3, 912, 635 \\ 4, 703, 116 \\ 6, 294, 888 \\ 8, 315, 044 \end{array}$	$\begin{array}{c} 1,469,021\\ 1,455,834\\ 1,465,585\\ 1,461,630\\ 1,471,688 \end{array}$	759,676 689,964 696,691 698,067 700,867	$\begin{array}{c} 302,461\\ 300,646\\ 309,851\\ 290,690\\ 266,634 \end{array}$	10, 345, 73( 10, 785, 33) 11, 473, 20( 13, 004, 34) 14, 984, 49)
April 5. April 12 April 19 April 26.	4, 185, 183 4, 125, 446 4, 163, 098 4, 147, 418	8,957,319 8,729,863 6,551,501 5,535,027	$\substack{1,440,397\\1,379,626\\1,025,278\\655,023}$	$698,048 \\ 638,694 \\ 578,434 \\ 496,044$	$\begin{array}{r} 240,220\\ 210,879\\ 163,024\\ 156,873 \end{array}$	15,521,161 15,084,500 12,481,330 10,990,380
May 3 May 10 May 17 May 24 May 31	$\begin{array}{r} 4,027,632\\ 4,020,603\\ 4,125,448\\ 4,366,012\\ 4,520,852 \end{array}$	$\begin{array}{c} 4,590,299\\ 3,788,379\\ 3,350,059\\ 3,581,850\\ 4,624,475 \end{array}$	$\begin{array}{r} 860,264\\ 796,072\\ 826,594\\ 1,237,483\\ 2,218,302 \end{array}$	507,673 405,937 341,458 340,384 372,700	139, 519 136, 204 125, 323 116, 984 71, 175	10, 125, 38 9, 147, 19 8, 768, 88 9, 642, 71 11, 807, 50
June 7 June 14 June 21 June 28	$\begin{array}{r} 4,574,333\\ 4,674,197\\ 4,721,728\\ 4,628,299 \end{array}$	$\begin{array}{c} 6,258,505\\ 6,788,344\\ 6,520,017\\ 6,083,407 \end{array}$	$2,015,062 \\ 1,366,888 \\ 1,233,536 \\ 987,080$	337,270 380,759 333,994 250,449	$32,205 \\ 22,676 \\ 20,317 \\ 3,032$	13, 217, 27, 13, 232, 86, 12, 829, 59, 11, 952, 26, 26, 26, 26, 26, 26, 26, 26, 26, 2
July 5 July 12 July 19 July 19 July 26	$\begin{array}{c} 4,163,201\\ 3,888,309\\ 4,011,756\\ 4,029,734 \end{array}$	5,593,304 5,056,419 4,637,350 4,059,845	$\begin{array}{c} 801,222\\ 442,711\\ 383,027\\ 249,529 \end{array}$	$\begin{array}{c} 229,145\\ 227,182\\ 232,837\\ 259,973 \end{array}$	3,691 3,691 3,691 3,691 5,929	10,790,563 9,618,312 9,268,661 8,605,010
August 2 August 9 August 16 August 23. August 30	$\begin{array}{c} 4,224,256\\ 4,424,344\\ 4,403,107\\ 4,302,407\\ 4,400,230 \end{array}$	$\begin{array}{c} 4,122,709\\ 4,013,009\\ 3,684,653\\ 2,430,713\\ 2,976,637 \end{array}$	291, 185 483, 459 596, 699 882, 760 1, 095, 512	$\begin{array}{c} 205,648\\ 239,854\\ 250,089\\ 268,353\\ 296,050 \end{array}$	$\begin{array}{c} 6,153\\ 18,378\\ 20,068\\ 29,627\\ 84,715 \end{array}$	8, 849, 951 9, 179, 044 8, 954, 616 8, 913, 860 8, 853, 144
September 6 September 13 September 20 September 27	$\begin{array}{r} 4,482,808\\ 4,610,321\\ 4,822,119\\ 4,902,561 \end{array}$	2,750,969 3,123,275 2,806,765 2,726,954	$\substack{1,155,438\\1,188,346\\997,907\\936,411}$	298,732 321,714 331,611 336,212	$\begin{array}{r} 87,847 \\ 113,668 \\ 171,997 \\ 251,856 \end{array}$	8,775,794 9,357,324 9,130,399 9,153,994
October 4 October 11 October 18 October 25	$\begin{array}{r} 4,824,132\\ 4,708,338\\ 4,622,990\\ 4,836,076 \end{array}$	2,605,656 2,066,204 2,031,511 2,184,862	$\substack{1,189,972\\1,059,260\\753,002\\660,296}$	323, 629 318, 697 305, 660 292, 596	365,563 419,156 493,548 530,801	9,308,952 8,571,655 8,206,711 8,504,581
November 1	4,847,364	1,568,191	778, 165	318,726	598, 521	8, 110, 967

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## APPENDIX.

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#### No. I.

#### RAILWAY SAFETY APPLIANCES.

#### Report of Chas. Hansel, Consulting Engineer, Prepared under Direction of the Commission and Referred to in Their Report.

#### SPRINGFIELD, ILL., Sept. 29, 1890.

#### The Honorable Railroad and Warehouse Commission, Springfield, Ill:

GENTLEMEN—I herewith respectfully transmit my report bearing upon safety appliances in railway operation in accordance with your instructions given under date of July 23, 1890. viz.:

"It is ordered that Chas. Hansel, consulting engineer, be requested to make a full and exhaustive examination of the latest railroad appliances, such as couplings, brakes, frogs and the like, having for their object the preservation of the lives and limbs of employés and the traveling public; and that he report to the Commission the result of such examination with his conclusions thereon."

While the slow and old fashioned way of getting from point to point may be a better thing to have in the memory, the journey of to-day is barren of all save results, and the public interest now centers on questions of safety and speed.

Since the opening of the Liverpool and Manchester railroad in 1830 and the killing of the first passenger, Mr. Huskisson, contrary to the gloomy prediction of the coachman that "God in his anger against our great Stephenson would strew the land with shattered limbs," the fatality incident to railway travel as compared with the old time coach, is greatly in favor of the railroad. To determine upon the best among the countless numbers of appliances for safety in railway travel would require the earnest thought and examination of a congress of railway experts.

The field for investigation answering to the above is so extensive that I could not hope to do justice to all the topics which naturally present themselves, in the time and space allotted to this report.

By examination of Table I, which has been compiled from statistics found in report of Inter-State Commerce Commission, and from the last report of your Commission, you will find that all accidents arising from coupling and uncoupling cars, falling from trains and engines, overhead obstructions, collisions, derailments, other train accidents, at highway crossings and at stations are enumerated, giving for the United States two thousand nine hundred and forty-nine killed, and fifteen thousand four hundred and twenty-nine injured, leaving unaccounted for the cause of killing two thousand eight hundred and seventy-four and injuring three thousand eight hundred and eighty.

Of this number two thousand two hundred and fifteen were neither passengers nor employés and were probably trespassers. The killing of five hundred and thirty-nine employés and one hundred and twenty passengers may be accounted for by defective track, rolling stock and bridge failures.

When we consider the ratio of the number of trainmen employed (138,323) to the number killed or injured (1,179 killed and 11. 301 injured) the result is appalling, 1 death for every 117 trainmen and 1 injury for every 12 trainmen employed.

During the year there were carried 472,171,346 passengers in the United States, of which number 310 were killed and 2,146 injured, or one killed for 1,523,133 carried and one injured for each 220,024 carried.

When we consider the number of persons employed (704,743) as compared with the number of passengers carried, it is manifest that the work of the railroad employé is a dangerous calling and in considering safety appliances in railway operation we should look first to such devices as will tend to reduce the frightful results incident to it.

After careful examination of the various appliances and requirements for the safe operation of railways I have chosen for special report the following subjects:

- 1. Brakes.
- 2. Couplers.
- 3. Block signals.
- 4. Signals.
- 5. Interlocking.
- 6. Freight cars.
- 7. Maintenance of way.
- 8. Highway crossings.
- 9. Heating passenger cars.
- 10. Lighting passenger cars.

#### BRAKES.

For some years after the construction of the first railroad but little attention was given to the stopping of trains, the chief aim being the perfecting of the motive power.

The problem of how to stop was overlooked in the public interest of how to go. To-day the perfected air-brake for passenger service leaves but little to desire. The conditions incident to freight service presents many difficult points in operation, owing to the running of foreign cars with those owned by company, about 75 per cent. of the total number of freight cars hauled being foreign.

The improved equipment will naturally be put upon cars that remain at home and cars used in fast service for special freight, as stock, refrigerator cars and such, and cars operated on roads with sharp grades will be furnished with power brakes first: whereas roads using easy and uniform gradients will not change from hand to power brakes as soon.

Some of the requirements for perfect freight brakes are;

1. That all the brakes of the whole train shall be under the control of the engineer.

2. That the brakes be automatic; that is, self applied in case of accident causing separation of train.

3. That all the brakes of a train shall work uniformly in stopping.

4. That the full power of the brake action be available on the steepest grades.

5. That it be simple in construction, easily repaired and not expensive to apply or maintain.

A power brake fulfilling these requirements is now in use on the passenger equipment of the United States, and in most of the States, passenger trains are not permitted to be run without automatic train brakes.

The progress made in equipping freight cars is not so favorable, owing in great part to first cost. The first concerted action taken by railroads for the purpose of advancements toward the equipment of freight cars with automatic brakes was through the Society of Master Car Builders, representing the principal railroad companies of the United States, at their annual meeting in 1883, at which time they appointed a committee to report on "automatic freight car brakes," at the next annual meeting. The report of this committee was meager and throw no new light on the practicability of automatic or power brakes for freight cars. This committee was discharged and a new one appointed and reported in 1885 upon (1) Buffer brakes, (2) Friction brakes, (3) Air-brakes, and (4) Electric brakes. The report favors air-brakes and the committee recommend experimental trials to prove the qualities of the several brakes in question. This recommendation was approved and the committee invited the manufacturers of automatic freight car brakes to a competitive test to be held at Burlington, Iowa, on December 14, 1885, and on May 14, 1886. That we may follow the workings of this test and gain knowledge from this most important trial which demonstrated not only the necessity, economy and life-saving results obtained by use of power brake, but threw new light upon the much vexed question of automatic couplers which is of co-equal importance, both from humane and economic view. I think it well to follow briefly the record of the tests.

Five companies entered into the contest of 1886, namely the Westinghouse Automatic Brake Co., The Eastern Vacuum Brake Co., The American Brake Co., The Widdifield and Button Brake Co., and the Rote Brake Co. These competitors may be classed as representing two types of brakes, the continuous or air-brake by the Eames and Westinghouse and the independent or buffer brakes by the other three companies.

The tests opened July 13th, and continued without interruption until August 3d, 1886. The rules governing the trial proved a severe test on the efficiency of the several styles of brakes and early in the contest, the Rote. Widdifield and Button brakes were shown to be inferior to the others and the results of all the tests was disappointing, although the Westinghouse seemed to more nearly meet the requirements. The committee of M. C. B. Society decided to give the several companies opportunity to improve upon the weak points brought out by the tests and a second trial was commenced May 9th, 1887, the brakes represented being the Westinghouse, Carpenter. Eames, and Hanscom. The tests continued to the 29th day of May, and while much valuable knowledge was given to all interested, the committee did not recommend the adoption of any form of brake and closed their report with the following conclusions, which in the light of the exhaustive tests then completed seemed proper.

"First—That the best type of brake for long freight trains is one operated by air and in which the valves are actuated by electricity.

Second—That this type of brake possesses four distinct advantages :

- (a) It stops the train in the shortest possible distance.
- (b) It abolishes shocks and their attending damage to equipment.
- (c) It releases instantaneously.
- (d) It can be graduated perfectly."

Since this report was made I have witnessed many trials of brakes with remarkable results, and I am of the opinion that there is now a brake in the market which may be relied upon in any kind of freight service.

As the Westinghouse automatic brake is used to a greater extent than any other on the railroads of the United States—of 35,000 passenger cars in the United States, Canada and Mexico nearly all are equipped with this brake, also about 20,000 locomotives, and when orders now in shop are filled about 150,000 freight cars will have been equipped—I will include a brief description of its parts as best representing the most approved type of the most important of all safety appliances.

The diagram of parts as applied to engine and tender for either passenger or freight service is shown on plate numbered II, diagram showing application to freight service on plate III. (*Note* — As passenger cars must be equipped with air brakes on, special description is considered necessary in this report.)

The first appliance necessary, and upon which the whole system depends for its power is the *steam engine and pumps*, which produces the compressed air. This is placed on engineman's side of locomotive, in plain view of engineman. The compressed air is led from the air pump to the *main reservoir* and stored there at a pressure of 70 to 80 pounds per square inch. The engineer's brake valve, a very ingenious piece of mechanism, is located in the cab convenient to the left hand of the engineman. This valve gives the engineman power to regulate the flow of air from main reservoir to main brake pipe for releasing the brakes, and to the atmosphere for applying brakes. An auxiliary reservoir is attached to bottom of tender, same as on passenger car, which is used to store a supply of air for the brake cylinder.

The *brake cylinder* is attached to bottom of car and connected with the foundation brake gear in such manner that when the piston is forced out by air pressure the brakes are applied.

Probably the greatest advance made in the construction of air brakes since its advent is in the construction of the *triple value*.

The *triple ralve*, which connects the brake pipe to the auxiliary reservoir and connects the latter to the brake cylinder, and is operated by a sudden variation of pressure in the brake pipe so as to admit air from the auxiliary reservoir to the brake cylinder, which applies the brakes, at the same time cutting off the communication from the brake pipe to the auxiliary reservoir, or to restore the supply from the brake pipe to the auxiliary reservoir, at the same time letting the air in the brake cylinder escape, which releases the brakes. It is the reduction of pressure in the train pipe which causes the brakes to be applied.

The couplings are attached to flexible hose and connect the brake pipe of the two cars.

The reservoir and brake cylinder are severally bolted together for freight services, making a cheaper form and avoiding the pipe connections.

The latest statistics give the number of locomotives in service in the United States to be 29,036, of which 17,995 are equipped with automatic train brake: of the 961,119 freight cars 93,475, or less than 10 per cent., are fitted with automatic train brake. At the close of the year 1887 but 50,000 freight cars were equipped with automatic train brake, showing an increase of 43,475 in two years. In following the distribution of cars thus equipped I find the Atchison, Topeka & Santa Fe leading with 20,000 cars, Union Pacific second with 12,902, and Southern Pacific third with 12,043. This important reform is making rapid progress and shows that the companies which are taking the lead are the greatest of the country, and their lead in such important matters of technical and financial importance will eventually be followed by minor corporations.

Why do these great corporations equip their cars with this system of brakes? Is it for the sole purpose of saving human life or lessening the possibility of injury to those whose duty requires them to be on top of cars in train?

There can be no doubt as to the crying need of such devices, from a humane point of view, and there is no question of the practicability of the air brakes, for if there were any doubt 86 prominent railroads of this country would not use it for standard. I think there is no question as to the economy of its use aside from the question of humanity. The price of a good air brake is about 45 dollars per car. With the automatic air brake broken grades may be utilized and momentum used in descending grades, and by a fluctuating schedule of speed to conform to profile, 15 to 20 per cent. in train load may be gained. The saving to rolling stock is considerable, and the frightful aggregate of accidents from collisions, breakaways, falls from moving trains, overhead obstructions and injuries from exposure may be saved.

Railroads doing business in this State report 196,477 freight cars in service, of which but 5,158 are equipped with train brake. The railway nileage of the United States, as reported by Inter-State Commerce Commission for year ending June 30, 1889, is 157,758.83. This is probably incorrect, as some lines operating wholly within a State decline to make official report to this Commission. The mileage reported officially is 149,948.66, giving Illinois 9,829.48, instead of 9,936.63, as reported officially to your Commission. Total freight cars in service reported by Inter-

State Commission is 961,119. Assigning 557 cars to each 100 miles operated within this State, we have 55,347 cars apportioned to Illinois. Official report from lines doing business in this State, gives 239,773 cars. Apportioning locomotives on basis of 19 for each 100 miles operated, gives 1,888; number reported owned by lines doing business in this State, 6,802.

Cost of equipping 1,888 locomotives with air, at \$450.00 each, \$849,600.00; cost of equipping 55,347 freight cars with air, at \$450.00 each, \$2,490,615.00. Total cost for equipping locomotives and freight cars, \$3,340,215.00, or about 8.5 per cent. of the total gross freight earnings of the lines in this State for the year ending June 30, 1889.

As much has been written and said concerning the great loss of life incident to railway employment in the United States as compared with the United Kingdom, some comparison of equipment may be pertinent.

The English freight car, called in England "goods wagon," is about 15.5 feet long, with four wheels, carries a load of eight tons and weighs five tons, being 1.6 to 1. while the American box car is about 34 feet long, carrying 50,000 to 60,000 pounds, and weighs 23,000 to 28,000 pounds, the proportion is 2.13 to 1. Only about 20 per cent. of the freight cars have brakes of any kind, and are coupled by heavy chains, which gives one foot of free slack between cars. The brakes are placed so that they cannot be worked while train is in motion. In rear of train is caboose with brake. This, with brake on engine and tender, is the only brake power that can be applied while the train is in motion. On long trains or steep grades brake vans are attached. Owing to the lowness of bridges and tunnels brakemen cannot walk over top of cars and apply brakes. This use of extra brake vans is expensive, but with its aid, and with the general uniform and low gradients of English roads, it is possible to move trains rapidly and with few accidents, and the casualties from falling from cars, overhead obstructions and coupling is brought to a minimum.

The coupling of cars with us is so closely allied with the use of brakes that the subjects might well be considered together. The conclusions concerning several appliances of which this report will make mention will be given in the addenda.

#### CAR COUPLERS.

There is probably no reform in the operation of railroads which is occupying the minds of railroad managers. State commissions and thinking men as the much discussed problem of a uniform, safe and reliable car coupler. The form of link and pin has been with us from the first, and is still held by many to be the best yet devised. The frightful fatality attending the business of coupling and uncoupling cars has called attention to the necessity of improvement, and the inventor's skill has for years been employed in an effort to produce a coupler that will answer the requirements under all conditions of traffic, and be sufficiently cheap to warrant changing from the old style.

During the year ending June 30, 1889, 300 employés were killed in coupling and uncoupling cars, and 6,759 were more or less mangled. Of this number, 21 were killed on lines in this State and 444 injured.

Not less than 10,000 applications have been made for patents on car couplers, and it is from this aggregation of ideas that we are called upon to select a type.

In this State, an act approved March 31, 1874, in force July 1, 1874, provides for automatic coupling, "or other coupling which will secure personal safety," for passenger cars only. No provision was made, nor at any time since has the subject of automatic couplers for freight cars been a subject of State legislation.

The Miller hook is used exclusively on passenger cars, and it is seldom, if ever, that one can find a passenger car which is not equipped with some form of automatic coupler. I do not understand that the coupling of passenger cars was, or is, considered more dangerous than the coupling of freight cars, and whether this action of the legislature was intended for the protection of trainmen whose duty it is to couple or uncouple cars, or for the comfort of passengers. I am not advised.

The force of public opinion was brought to bear on the legislature of Massachusetts, which referred the subject of freight drawbars and couplers to the Board of Railroad Commissioners to report on same at next general court. The Board, after examination, recommended the Safford drawbar or some other form of automatic coupler. In 1884 an act of Massachusetts again ordered cars to be equipped with such forms of automatic coupler as may be recommended by the commissioners. The commissioners held meeting for examination of couplers Sept. 25, 1884, representatives of the commissions of Ohio, Iowa and Michigan being present. After making such tests as were possible, the commission adopted the Janney, Hilliard, Cowell, United States and Ames. Subsequent trial and use of these couplers shows that the Janney and Ames are best fitted for the purpose. The latest statistics showing 83,788 freight cars equipped with automatic couplers. Of this number Janney, 17,536; Hilliard, 1: Cowell, 61: United States, 425: Ames, 11,808. The Boston automatic coupler was added to their list in 1887, although it does not appear that it was used by any railroad.

In year 1888 there were 5,000 approved couplers in the State of Massachusetts, and out of a total of nine accidents in coupling and uncoupling, eight occurred in coupling old with approved style. The commission, seeing the difficulty of curing this evil through State legislation, recommended in their report to the Legislature that the Inter-State Commerce Commission be instructed to consider what can be done to prevent the loss of life, etc. The Legislature adopted this resolution and forwarded to Congress a memorial requesting federal legislation.

Connecticut ordered safety couplers on freight cars in 1882.

Michigan enacted law in 1886 authorizing use of Aikman, Ames, Blocker, Cowell, Marks, McCree and Perry, and in report of 1888 the Commissioner says, "It does not appear that the substitution of automatic for old style of coupling has as yet begun to furnish anticipated results in the decrease of coupling accidents." The Janney and Dowling couplers were added to the first list.

New York, in act, required that after July 1st. 1886. no coupler shall be used upon any new freight car unless same can be coupled or uncoupled without the necessity of going between cars, etc. In 1889 the Commission of New York also favored the putting of this matter within the jurisdiction of the Inter-State Commerce Commission.

It appears that in these States, where the Commissions are composed of intelligent men seeking for a remedy for this evil, that after trial extending over a period of years, and with the assistance of the Legislature of their respective States, they are dissatisfied with the results of their work, and appeal to Congress for legislation.

During this time the Society of Master Car Builders made this subject a matter of earnest examination, and at the 17th annual convention, held in Chicago, June, 1883, a committee was appointed to report on automatic freight car couplers at the next annual meeting. This committee submitted its report at the next annual meeting, making no selection, and concluding their report as follows: "In conclusion the committee will say that they realize the importance and magnitude of the work which has been given them, and they would therefore urge upon the members of the association the importance of thoroughly discussing the merits of car couplers."

This question was made a subject for consideration at a special meeting in 1885, at which time the following resolution was passed:

"Resolved, 'That it is the opinion of this convention that the independent action of State Legislatures enforcing the use of some form of automatic or safety coupler is already resulting in greater danger to employés coupling cars than they were subject to before such action went into effect. and that any similar further action of Legislature will greatly increase the danger to employés."

A study of the requirements of an automatic freight coupler will present the following conditions:

1. That they be coupled and uncoupled without requiring men to go between the cars.

2. That whatever the relative heights of the couplers, they couple and uncouple equally well.

3. That free slack, as far as possible, be dispensed with to reduce damage to equipment and freight.

4. That cars be coupled easily and with a minimum of concussion to encourage careful handling of cars.

5. That they be simple and durable and at a minimum cost.

6. That the couplings at both ends of a car be alike.

7. That there be no loose parts to be lost.

8. That they couple on curves.

9. That they couple with certainty and remain so without danger of parting on road.

10. That they be such as act favorably with brakes.

11. That the coupling and uncoupling be unobstructed by inclement weather.

12. And most essential of all, that the coupling be universal, or readily coupled with all other couplers.

Is there a coupler now made which will meet these requirements? Very many people think this problem unsolved and probably unsolvable.

The M. C. B. society after throwing down the gauntlet in their resolution against State legislation, realized that they must take decided action. Railroad commissioners were invited to a trial of couplers held at Buffalo September, 1885, at which trial 42 makes of couplers were entered, 19 of which might be classed with loose link couplers, 2 as fixed link, 12 as hook couplers, coupling in vertical plane, 3 as loose coupling bar couplers, 3 hook couplers, coupling in a horizontal plane, 3 miscellaneous couplers. After testing these various designs the committee recommended two of the first class, three of the second, one of the third class, four of the fourth class and one of the fifth class for further trial.

At the 21st annual meeting of the Master Car Builders' Society, it was decided to submit the following recommendation for decision by letter ballot, that the Janney type of coupler be recommended as the standard form of coupling.

The result of this ballot showed that 474 votes were in favor of the adoption of the Janney type of coupler, and 194 against. The recommendation was therefore declared adopted.

Plan of Master Car Builders' standard automatic coupler and carrier iron is shown on Plate IV. Form of contour lines on inside of jaw is shown on Plate V.

During the year ending December 31, 1889, 40,000 cars were equipped with M. C. B. couplers, making a total in the United States of 56,050. The trunk line roads, the Chicago systems and the Richmond and Danville and Atlantic coast line in the south are the chief movers in this reform. Companies controlling 20,343 miles of railroad have made the M. C. B. type standard. It is in extensive use on 40,000 miles. Four companies alone have 25,000 cars equipped with M. C. B. couplers. When we consider that not more than 8,000 cars were equipped with M. C. B. couplers at the beginning of 1888, it is apparent that the adoption of a standard by the M. C. B. was a great incentive to its general use. The Engineering News gives number of cars equipped with M. C. B. coupler prior to 1888 as 6,000, cars equipped during 1888 as 15,000, ears equipped during 1889, 30,000. This statement probably does not cover all cars so equipped, but is in itself sufficient evidence to indicate the great advance made in this work.

I have conferred with the general officers of many of the leading railroads, both in person and by letter, and have found few who criticised the **M**. C. B. type of coupler on practical grounds. The effect of the action of the M. C. B. upon the work of inventors is also very marked, in prescribing the lines of its standard the society only defined the contour of the jaw, and any style of coupler conforming to these lines which will interlock with the Janney will be accepted, the method of locking, etc., is left to be improved upon, and inventors, instead of wasting energy in devising a link or other than a vertical plane hook, are devoting their skill to the perfection of the M. C. B. type.

In order that any mechanical device intended for use upon railroads may receive the favor of railway managers, it must have more than the cause of humanity on its side. The question of expense and utility enter first, and notwithstanding public pressure has been brought upon railway officials through technical journals, public spirited men, commissioners of railroads and engineers who have had opportunity to become familiar with the facts. There must be an underlying current of economy to induce so rapid progress as has been shown to have been made during the past year. Railroad companies are ready to pay for improvements which will reduce operating expenses. Probably nothing has demonstrated the value of the close coupler more than the Burlington brake trials. It has long been thought necessary to have free slack in the coupling of cars. This free slack is the cause of breakage of many drawbars and draft rigging in stopping and starting trains, and in operating roads with broken gradients and also very dangerous to trainmen and live freight. During the brake trial it was found necessary to take up all the free slack by blocking the links. The severest pull on the engine comes immediately after all cars in the train have been started, and an engine will start more cars than it will pull. In ascending a grade of fifty feet per mile it was found that train could be started with greater ease with links blocked than with links loose. While the complete elimination of shocks and the attendant danger to life and injury to equipment is a matter of brakes and not of couplers, still the coupler is an important factor, and it is obvious that the close coupler is necessary to reduce the slack to a minimum. Knowing the conditions to be fulfilled by an automatic coupler as set forth hereinbefore. it will be seen that the M. C. B. type may be made to answer to the requirements as indicated in the first eleven conditions.

The cost of equipping a freight car with the M. C. B. coupler is about \$25 per car in place, being little if any more than the cost of the old The saving in damage to equipment, while considerable, draw gear. amounts to little as compared with the increased train loads that can be made by the use of automatic air brakes and couplers. The B. & O., and other roads of like character using broken grades, haul as many passenger cars as the maximum load on more level grades, but there will be found a considerable difference in train loads in freight traffic as between com-paratively level grades and fluctuating grades. Why is this? Under a like nordition if a becometing on will the many load of the second condition, if a locomotive can pull the same load of passenger cars as over broken grades as the maximum pulled on comparatively level or uniform grades, the freight engine should do similar work in freight service. However, this is not done, and the reason is found principally in the fact that with the combined use of air brakes and close couplers the engineer of the passenger train uses the power of his engine almost continually and by variation in speed, and by using the momentum of his train stored on descending grades he is able to climb grades which would be difficult to surmount if the stored energy acquired on descending grades was not used to lift the train out of the sag. With freight train equipped with hand brakes and loose couplers the engineer dare not raise the speed sufficient to assist in equalizing the profile, and on gradients prescribing short breaks the danger of breakaways

and consequent delay necessitate the constant presence of brakemen on top of cars to equalize the strain on drawbars, and prevent, if possible, the sudden shocks which are liable to break drawbars, injure freight and knock down the stock. To limit the speed of trains to a fixed number of miles per hour, regardless of profile, will certainly reduce the train loads, and the time chart should be made to conform to profile as well as to other necessities of operation. I am of the opinion that this matter will receive greater attention when freight cars are equipped with train brakes and close couplers.

During the past ten years few reports of State Railroad Commissioners. Inter-State Commissioners, journals, gazettes, or of the many societies organized for the promotion of knowledge in railway practice have been without some mention of this question of safe couplers, and no society, excepting the M. C. B., has been bold enough to take decided action in the matter. Since their action in adopting the Janney type as their standard they have been criticised by makers and railway officials, one for adopting any type and the other for not adopting a special device instead of a type. At the March meeting of the New England Railroad Club a paper was read denouncing the action of the M. C. B. on account of their not adopting a standard coupler, contending that a "standard freight car coupler is absolutely necessary for the most complete safety and economy." Admitting the economy but offering no method of relief. The adoption of a standard coupler by any body, State or National, would not insure its replacing all existing drawbars.

The adoption of a type, however, still leaves the field open for competitors, encourages the inventor to improve, and by the survival of the fittest will ultimately give us the ideal coupler, while in using the present M. C. B. type we will have universal interchangeability.

It is true that the breakages of the present form of M. C. B. type is excessive, caused partly by faulty construction, poor material and the necessity of coupling with the old style link and pin. The inventors' skill will no doubt rapidly improve the form, and when the necessity of coupling with link and pin no longer exists the knuckle breakage will be greatly diminished. The cost of furnishing links and pins for the old style drawbar is at the lowest calculation \$2 per year.

Why do links break? Is it caused from the lack of sufficient material to resist the strain necessary in steady pulling? The full resistance of a one and one-half inch link made from good iron is 175,000 pounds and the maximum pull of the average locomotive will not exceed 20,000 pounds. Even reducing the link to the resistance at the elastic limit, its strength will be five times greater than the dead pull of an engine. It is manifest that links are not broken by dead pull, but by jerks born of free slack. In the absence of free slack no such strain can occur so that a comparatively weak hook coupling without free slack will withstand the pulling strain.

The greatest trial to which the M. C. B. coupler is subjected is in switching and coupling. There is little danger of breaking in transit. When drilling in yards cars are punted or poled from lead tracks and crash against stationary cars with tremendous force. And again when coupling every new device is tested unofficially by switchmen who regardless of damage to equipment, will signal to the engineer, "Open her out Jim, and hit her hard, and see how this thing" work."

A friction buffer manufactured by Westinghouse, is intended to take up a portion of this shock, but it has not been in use long enough to establish its utility. When a suitable buffer is found the expense of maintaining the M. C. B. coupler will be greatly reduced.

The recital of the action of the M. C. B. society leading up to the final conclusion and adoption of a standard type as well as the interest and action taken by the commissioners of the several states and other societies covering a period of years, demonstrates that the solving of this problem has brought into action the best skill of this country, men familiar with the requirements and conscious of the need of reform from the dangers and expensive form of old style link and pin. Many men are still unconvinced that the proper type has yet been adopted by the M. C. B. but the majority believe in it, and the question now is how to put it into service. The transition period is a dangerous one. Will railway officials equip their freight cars as fast as renewals are needed or new cars built without the force of the law, and if legislation is necessary, shall it be state or national?

#### BLOCK SIGNALS.

If we have learned how to stop a train it is also very essential that we be advised when to stop.

During the year ending June 30, 1890, reports show 311 persons killed and 1,313 injured in collisions. Of this number 167 killed were employés and 107 passengers; 820 injured were employés and 445 passengers. This indicates that accidents from collisions present a more dangerous element to passengers than any other form and the traveling public is necessarily more interested in safety appliances tending to the safe handling of passenger trains than in any other safety appliance.

While the automatic air brake is a foremost factor of safety in the movement of trains it still fails to entirely overcome the errors of the train dispatcher, operator or trainmen. If the dispatcher's time spacing of trains was carried out as intended there would be but few collisions. However, so many chances present themselves in running that the schedule is not always maintained and it is necessary to change the time spacing for distance spacing in order to reduce the danger of collisions to the minimum.

In England the block system is in almost universal use, about 90 percent. of all the passenger trains of that country are worked by the absolute block system, and will doubtless be universal, as the board of trade under a recent act of parliament, has notified the companies that the use of this system will be *required* on all passenger lines.

The block system originated in England and grew out of the necessity of traffic. The original method was introduced about 1853. The plan then used was to divide the road into sections, whose length varied with the requirement of traffic or the profile of road and topographical features of the contiguous country, sections over which few trains travel being from two to five miles long. Where traffic was more dense sections did not exceed one mile. At the end of each section a tower or signal house is located, occupied day and night by a signalman who is also a telegraph operator, who was charged with the duty of keeping a vigilant look-out and wire the signalman in tower on either side when a train had passed his station. Two trains are not allowed between signal stations at the same time. Such universal use of the block system in England and the resultant safety from collisions is a powerful argument in its favor.

Some of the lines in the United States, realizing the importance of the block system, have introduced it on lines where traffic is heavy enough to warrant the expense. The original method is very expensive and unscientific, and great advancement has been made in England and the United States in the practice.

The protection of a train which for some reason has been compelled to stop between telegraphic stations is generally attempted by sending a man back along the track with a signal to warn approaching train. If the flagman who is sent back, as well as the engineman on following train, perform their duty, all is well. But extreme vigilance is necessary on the part of both, and if the weather be inclement or the signal be difficult to see on account of fog, collision is almost sure to follow.

It is true that much of the loss of life resulting from collision is due to negligence on the part of trainmen, and notwithstanding the carefully formulated rules provided for the guidance of trainmen, man is fallible and collisions do occur. As early as 1841 one semaphore was in use at New Cross, England. Mr. Bourne, writing in 1839, says of the London and Birmingham: "Certain policemen are stationed at intervals along the line as signalmen, whose duty it is to remove obstructions, and to warn an approaching train of any obstacle to its progress. The signals made use of in the day time are small white and red flags, and at night, lamps similarly colored." But the policeman, with his flags and lanterns, could tell the engineman nothing till he came close to him, nor could he warn him that the train which had passed had not broken down between his station and the next. In order to guard against this the telegraph was called into aid, enabling the operators to communicate to each other announcing the passage of trains.

Various systems have been devised to operate the block signals automatically by the passage of trains, and the question of what is the best kind of block signaling and to what extent railroad companies will be willing to introduce what is certainly a great expense, is not yet determined.

The Sykes system is used to some extent in the United States, being the standard of the New York & Harlem R. R., the N. Y., N. H. & H. R. R., and the N. Y., L. E. & W. R. R. The Union Switch and Signal Company and the Hall Signal Company offer systems, each of great merit, differing greatly in method employed. The Union Switch and Signal Company provide two systems for the automatic block signals, one operated entirely by electricity and the other by combined rail circuit and compressed air. A gravity battery supplies the current which is carried through the rails, being connected at joints by wires connected to each end of the rail. The insulation between block sections is accomplished by placing a wooden washer between the angle bar and the rail. The sections may be of any length convenient to traffic to be controlled. At the termination of each section a semaphore signal with two blades is generally provided, the upper blade painted red, and when in horizontal position indicates danger, the lower painted green, being a signal to "proceed under caution." The lowering of the blade indicates that the danger which it indicated in horizontal position no longer ex-The normal position of all signals is horizontal. The unbroken curists. rent through the rails, through the mechanism of the machine on signal post maintains the signal at safety or inclined from the horizontal. When a train enters the block the current is taken up through the wheel and axle to the opposite rail. The current is broken and the upper blade moves to a horizontal position, indicating to following train that first block ahead is occupied. When the train leaves the first section, the cur-The lower blade still remaining at "caution," horizontal indicating that train is in second section, train following proceed under caution. When train has passed into third section the first caution signal falls, and train following finding both signals down may proceed at full speed. The cessation or interruption of the currents, either by presence of train in block, broken rail, removal of rail by sectionmen, or from any of the various accidents which may arise to disturb the rails the signals are held at danger. The use of two blades is only practiced where blocks are short and it is desired to keep two clear sections between high speed trains. The use of this system of two blades on long sections would cause too much delay to traffic. The track circuit in perfect working order seems to cover all essential points in an automatic block system, and its use by the Pennsylvania R. R. at Pittsburgh and other points where traffic is dense seems to have given satisfaction.

The practice of sending flagmen back when train is delayed between stations should not be omitted, no matter what system of block signaling is used.

All signals used in the system just described are of the semaphore pattern, i. e., post and blade. This is the form generally adopted as standard for all form of block and switch signals.

-15 R. R.

The Hall system of block signaling differs materially from the Union Switch & Signal Co's. plan. In this system the wire circuit is used, and the signal instead of being of the semaphore pattern is of the disc pattern, inclosed in a case when indicating safety. The apparatus invented by T. S. Hall was first used on the New York and Harlem Railroads in 1871. This first device provided for the transmission of current by means of wires suspended on the telegraph poles and subjected to the usual danger of damage by storm, etc. The wire is now carried under ground to the signal posts. The device is rendered automatic by the aid of a track instrument which receives upon a lever the blows from passing wheels. Quoting from the description of their system found in their late catalogue: "The principle on which this signal is constructed and operated is that the first wheel entering a block section sets the signal at danger and at the same time breaks an electric circuit in such a way that under no possible contingency can the signal again show safety until the train passes out of the block section and operates the track instrument which restores the circuit. If a wire breaks or is grounded or two wires become crossed, the signal goes to danger. Likewise a failure of the battery or any failure of its parts, or the occurrence of any of the mishaps which experience has shown signal connections liable to, must always result in setting the signal at danger, etc."

This system it will be observed will allow a portion of a breakaway to pass out of a section setting the signal behind it, and leaving a portion of the train on track unprotected from following train. It also lacks the power of warning against broken rail or any disturbance of track which may be dangerous to traffic. It is claimed by those favoring wire circuit that it covers all the points claimed and that the breakaways should be protected by hand signal in hand of trainmen. I believe the Hall Signal Company favor the wire circuit on scientific principles and are prepared to furnish the rail circuit system if desired. The wire circuit is less expensive and it is contended that the cost of maintenance is less than by any system of rail circuits.

The station block system is in use on several railroads in this State, and where the stations are not too far apart the system seems to be satisfactory.

The U. S. & S. Co. are constructing a system of automatic block signaling for the C. B. & Q. out of Chicago. The general adoption of any system of block signaling in this State is considered too burdensome for the traffic, and it is only at points where the traffic is dense and accidents from collisions frequent that it will be used.

On the evening of September 19, a coal train on the Philadelphia and Reading broke in two. The train was made up of 150 cars, probably the short 4 wheeled cars in use on that road for local business. The break was about 100 cars from engine. Another train of same length was following ten minutes behind. Owing to lack of proper signals and negligence of trainmen the second section collided with the rear end of first train which had slackened speed after breaking away. The collision threw the cars over on to the second track in front of a passenger train, wrecking it and killing twenty-one and injuring thirty persons, five being employés. With air brakes, M. C. B. couplers this accident would have been in all probability averted, and with an absolute block system this accident could not occur.

The movement of trains at 12 minute intervals where traffic is dense, is not safe unless block systems are used.

#### SIGNALS.

The question of the adoption of a uniform code of signals has been the subject of much debate among men who are charged with the safe handling of persons and property. The Time Convention, composed of general managers or officials of authority, have met from time to time and discussed the necessity of uniform train signals, have formulated a code of rules for general use, and in many ways promoted the general system of train signals.

Signals may be divided into classes as follows: The hand signal, train signals and semaphore or signals on fixed posts, indicating by position of arms, discs or globes, safety, caution or danger.

It is apparent that a uniform code for use of these signals is essential for safety. Trainmen change from one road to another, and unless all signals are used to express but one meaning on all roads there is liability to confusion and consequent danger.

The Time Convention has to a great extent succeeded in accomplishing this reform in hand signals.

The many combinations of fixed signals on trains necessary to indicate the class and position of train, make it necessary that trainmen be instructed alike, and I deem it necessary to good discipline that each trainman be provided with a book of rules showing a diagram of signals colored, showing position of signals on rear and of both passenger and freight by day and by night, locomotive running forward and running extra by Locomotive running backward empty and running day and by night. extra, locomotive running backward empty and carrying signals for following train, locomotive running forward carrying signals for train following, and locomotive running backward carrying signals for train following. be shown in position on engine, tender or rear of train separately, under each of the conditions. Should also show by diagram color and position of all flags used as hand signals, also section men's signal, which is generally flag fixed to temporary post on enginemen's side of track. Car repairs signals should be included as well as the station order board, main track switch targets together with all other switch distant and semaphores whether fixed or movable. Also road crossing signs, station whistling posts, water tank highway crossings, whistling posts and public warning posts, slow order boards, yard limits and any other form of signal which the trainmen should understand. This handy volume will prove a means of education, and where tried has been gladly received by all trainmen.

#### INTERLOCKING, SIGNALING AND DERAILING.

The term interlocking as here used means the grouping of levers controlling the movements of switches, turnouts and signals, and so arranging them as to make it impossible for operator to give conflicting signals or routes. Signaling applies to the directing of traffic and derailing is used to prevent two trains colliding if for any reason the signal is passed when set against either of the trains.

The purpose of using this system of grouping levers under the control of an operator at a convenient point and arranging signals and derails to co-operate with same in their proper turn is: First, increased safety to life and property: second, increased facility in handling traffic at busy points and avoiding the necessity of stopping at grade crossings.

When we consider the many accidents which occur at crossings and the expense of stopping all trains before crossing at grade at the hundreds of grade crossings in this State, it will be easily understood that the matter of expense is the only item which deters railroad officials from equipping such crossings with an approved device which will be not only a feature of economy in operation of trains, but a factor of safety, speed and comfort to the traveling public. Sometime before the knowledge of its advantage was appreciated in the United States, England had perfected a machine which is now almost universally used there and is fast coming into service in the United States. As an evidence of its usefulness in England, Waterloo station, one of the busiest in England, is equipped with an interlocking plant operated by 209 levers. From this tower the points and signals are moved to pass during seven hours of the day full 315 trains, and during the year 4,848,700 movements are made, or an average of 22 movements for each train. The Brighton signal box at London bridge is probably the largest in the world.

The first system of interlocking erected in this country was placed at East Newark, N. J., in 1874. This was an English machine known as the Saxby and Farmer type, a type which is now constructed by the U. S. & S. Co. and the Johnson Railroad Signal Company. Since 1874 the Union Switch and Signal Co. have erected up to January 1890, 551 interlocking machines, of which 52 are in Illinois. Of this number 6,046 are Saxby & Farmer levers, and since this report considerable work has been done. 19 machines have been erected in Illinois, comprising 277 levers, of which the Union S. & S. Co. built 18, working 266 levers, the Johnson S. &. S. Co. putting in eleven levers. As the U. S. & S. Co. have been foremost in the construction of work in this State, I will give a brief description of the machine.

For a single crossing at grade six levers are generally used, two for moving four detail points located 300 feet each way from crossing, four levers operating four home signals, located 350 feet each way from crossing, and four distant signals operate 1,550 feet each way from crossing. The con-nection from derail to lever is generally made with pipe, and home and distant signals by wire. The levers are grouped in a tower and painted and numbered to correspond to movements they control, levers operating derails, black, home and distant signal levers half red and half green. The home signal is painted red on furthest face and has blade with square end. When in horizontal position it indicates danger, stop, the distant signal is a blade with fish tail and painted green on furthest face, and when in horizontal position indicates to engineer that he must proceed under control expecting to stop before reaching home signal. When blades incline from horizontal it is an indication that track is clear. Should an engineer disregard the signal to stop as indicated by home signal in horizontal position, and proceed toward crossing, he is derailed at open switch or" derail point," located 50 feet from home signal toward crossing. The operator in tower seeing a train approaching on number one track grasps the lever operating the derail points on that track and pulling it towards himself closes the points, giving continuous rail on number one, and through the mechanism of the machine moves a bar, locking the derail and signal levers on number two. The next movement is by moving the lever operatingothe signals on side from which train is approaching, the first half of the movement lowers the home signal and the final movement home lowers the distant signal also locks the signal lever operating signals on same track for traffic in opposite direction. The machine now has four levers in normal position locked, and two levers throw out from machine. The approaching train now has clear track and advance signals and is protected from collision with any train on track 2 by open derails and danger signals. The derail on number one which was closed cannot be opened until the distant signal, then the home signal, are moved to danger. The derail lever may then be put back home. All levers now stand in line, derails open and signals at danger. To guard against splitting of trains at facing point switches a thin iron bar, called a detector bar, 40 leet long is hinged to the outside of rail, moving in vertical plane. This bar is so hung that it cannot be moved lengthwise without at the same time being raised. This bar is long enough so that it cannot be raised between the trucks of a coach or car and is actuated by the first movement of the lever which controls the switch and unless track is free the detector bar cannot be lifted, consequently switch cannot be opened. All levers in a machine are pivoted upon a common center and each identical in construction and operation, the foundation being separate from tower. In front of the levers is a cast iron frame containing movable locking bars moving in horizontal position. A casting rectangular in form, called the "flop" is carried on bearings at each end under the locking bars. This "flop" is connected to a radial link by pivot block moving in link. During the movements of the lever the pivot block traveling in the radial link moves it vertically, which through the universal joint turns the "flop" which, in turning strikes a "dog" or casting clamped to locking bar, drawing it sufficiently to lock all opposing levers and freeing the lever next in order to be moved.

The interlocking and signaling of most of the crossings and connections which have been put into operation in this State have been vastly more intricate than the simple crossing just described, but the method of construction and operation is only an enlargement of the plan, which must be conformed to.

The interlocking at Ash street, Chicago, operated by 54 levers: at Barrington, 13 levers: Clyburn Junction, 32 levers; Bridgeport, 36 levers, all of the Saxby & Farmer type, furnish examples of the complete manner in which every point is guarded and controlled.

The manual machine is the most generally used, but at points where the extent of system will warrant the expense the pneumatic machine is used. The finest example of this machine is at Pittsburgh. Pa. The power used is compressed air actuated by electricity, controlled by an operator who moves a small lever essentially the same as in manual machine, but requiring very little power.

The act which was approved in this State in 1887 providing for the passage of trains over grade crossings without stopping, when crossing is properly protected by interlocking and signals did not provide for the interlocking of draw bridges. I am satisfied that it is a matter of public safety and convenience, as well as a protection to railways to provide for the interlocking of draw bridges. Many draw bridges in this State are moved but seldom, and where they are moved often it is certainly better to protect the traffic against the possibility of engines running into an open draw. Records of such accidents, though infrequent, show disastrous results. The interlocking of the Bridgeport draw at Chicago with the complicated approaches thereto shows the complete manner in which this work can be performed.

#### FREIGHT CARS.

The record of accidents to employes falling from engines and cars during year ending shows that 2,504 persons were killed or injured. Of this number 493 were killed and 2,011 injured. While this fatality is chargeable to some extent to lack of proper brakes and couplers, which would do away with the necessity of men being on top of cars, it is also due to the improperly kept brake shafts, running boards, steps, side ladders, etc.

The Commissioners of the State of New York in their recommendations to the Legislature in their annual reports for years 1885, '86, and '87, ask that action be taken to compel railroads to protect trainmen from danger of slipping from the car roof by providing railing on roof along each side of car. No legislative action was taken. I am not advised that any State requires this protection to be provided.

During the meeting of the 13th annual convention of the M. C. B. society at Chicago in 1879, action was taken by the society fixing the standards for the kind and position of all brake shafts, fastenings for brake pawl, etc., position of running board at end of car, position and dimension of steps and ladders. These recommendations were adopted, and are as follows:

"That all brake shafts be placed on left hand corner of car, when a person is standing on the track facing the end of car. (Plates 6 and 7 show brake shaft in position as designated.)

"That the ratchet wheel and pawl be fastened to a suitable casting on the roof.

"That the running boards be not less than 18 inches wide and one inch thick, the ends of which to project 5 and one-half inches outside of the boarding. The projections to be supported by two braces of 2-inch by ‡-inch iron. "That two good, substantial steps made of wrought iron, one-half inch by one and three-quarters inch be fastened, one to each side, at diagonal corners of the car.

"That each box and stock car have two ladders, not less than five steps in each ladder, made of five-eighths inch round iron, projecting three and one-half inches from siding, securely fastened to each end at diagonal corners with handle directly over the ladders on the roof."

The question of the proper form of dead blocks, and whether it is better to construct cars without end platforms has been a matter of considerable discussion. Car builders are about evenly divided in opinion as to the durability of platform in economic construction and its relation to the work of trainmen.

At the 20th annual convention of M. C. B., at Niagara Falls, in 1886, it was decided to test the matter upon a division by letter ballot and it was decided in 1887 that the standard dead block of the society would be as follows:

That when double dead blocks are used, that their vertical height and their width measured crosswise to the track, be each eight inches, that their thickness measured lengthwise be 6 inches; that they each consist of castings as represented by figures 22-24, Plate VIII.

That when a beam attached to the end sill is used for carrying the dead blocks that it be made 36 inches long, not less that 4 inches thick and 8 inches vertical depth. Plate VIII.

The parts pertaining to the equipment of a freight car which have been hereinabove described, together with brakes and couplers first mentioned comprise the principal features which have to do with the safety to trainmen, and it is necessary that these parts be kept in repair and be made to conform to the standard adopted by the principal railways of the United States through the action of their Master Car Builders.

A code of rules has been generally adopted governing the condition of, and repairs to freight cars for the interchange of traffic, which provides for the manner in which cars must be repaired and sent forward. When cars are received which will not pass a thorough inspection all repairs should look to uniformity, and if renewals are necessary, no parts but standard style should be put on.

Owing to the small percentage of cars being equipped with air brakes, the brakemen are compelled to be on cars when train is moving, and as it is a perilous business under the most favorable conditions of weather, when the weather is foul the danger to life is great, brakemen in the urgency of their call have not time to examine each step. ladder or handbrake, and are often killed or mangled by the lack of proper attention of the car builder or inspector in allowing cars with defective equipment to be run in service.

My observation of the condition of freight cars in service convinces me that the inspection and repairs is not carefully performed.

The standards of the M. C. B. are generally good, and a rigid inspection by an officer of the Commission would prevent a great many of the accidents which occur from faulty repairs.

#### MAINTENANCE OF WAY.

Of all the many items which enter into the construction and maintenance of a perfect road I will not attempt to make mention. It is the first essential, both to passengers and employes in train service that the track —the channel of commerce—be perfect, and it is not only necessary that a Forth, East River or Eads bridge be built and maintained carefully, but that the little things insignificant in themselves receive equal attention. It was not the failure of an important structure which caused the fearful accident at Chatsworth nor a defective track or bridge which caused the Quincy disaster. It is only with the utmost vigilance and a supply and use of proper materials that makes it possible for trains weighing four hundred tons and more, to attain the tremendous speed demanded by the public, and yet, carry nearly five hundred million passengers with safety to all but 2,456, and the evidence that it has been done is a high testimonial to the vigilance, care and skill of each of the 407,743 employes. Although this is a favorable report it is possible to make a still better showing by increased attention to details and by aid of improved appliances. Thanks to the skill of the American bridge engineer and builder, we have little to ask in the line of better bridges.

There has been no record kept of accidents from bridge failures, which leads me to suppose that the number from this cause is small. The construction and maintenance of pile and framed bent bridges and culverts is generally left to a bridge foreman who is generally unacquainted with strains in framed structures. The first building of these wooden structures of lesser importance as to dimension and cost, is comparatively well done, but the great cause of danger is in neglect to make proper repairs, clean away debris, weeds, etc., and general policing around the structures in dry season. One great cause of failure of small structures is insufficient water-way, causing floating drift to be lodged against the structures, damning up the water and causing displacement. Many framed bents rest upon mud sills placed two to three feet in ground which are very liable to be washed out by scouring in time of flood. Probably 75 per cent. in length of the bridges in this State are constructed of wood, and renewals on some of our strongest lines are being made of wood. It is unnecessary, I think, to reason why this is done. We know and admit that stone, iron or steel is better material of which to build. It then resolves itself into a question of first cost.

The rapid increase of weight in rolling stock has not been attended by the same advancement in bridges, excepting in new work. Structures which were built 10 or 15 years ago to sustain the traffic of that day yet remain with parts renewed, yet the general plan and dimensions of members remain the same. The result may prove disastrous, for it is difficult, nay impossible, to correctly judge of the character and minimum strength of any structure by superficial examination. As an example your attention is called to the failure of the west shore span of the Peoria & Pekin Union bridge, spanning the Illinois river at Peoria. On the evening of Feb. 3d, a train of the "Big Four" pulled by a consolidated engine and composed of gondola coal cars loaded, followed by grain cars, had reached the first river pier when the span suddenly fell, precipitating engine and tender to bottom and killing three men. The bridge was apparently in good condition and had been examined in December, 1889, by a bridge expert who found no apparent defect. The bridge was built for lighter traffic and besides the quality of iron and steel was found to be very poor. This accident caused other companies to be fearful of the safety of their bridges which had been built for some time and arrangements were at once made for renewals of some of the important structures.

It is not necessary to demonstrate by accident and death that any structure is weak. A careful examination, test of parts of material and calculation of strain sheets would develop weakness not otherwise apparent. Many of the railroads of this State have no complete record of the bridges on their line to show the kind, dimension and age. And I find no plans of any bridges, or any information concerning same in your office.

A very important safeguard to derail trains at bridge approach is the provision of some rerailing device. The Latimer device is used as standard on many lines in this State. It is manufactured in Chicago and has shown to be a successful device.

This subject is of such importance that the legislature of the State of New York enacted a law in 1887, providing that guard posts should be placed in the prolongation of the line of bridge trusses so that in case of derailment the post, and not the bridge truss, shall receive the blow of the derailed locomotive or car. In 1884 the railroad commission of the same state ordered drawings of all truss bridges, showing dimensions, floor system, strain sheets, etc. This resulted in finding weak places in bridges. In many instances bridges were strengthened before strain sheets were sent in, showing the moral benefit of the law.

Many of the railroads of this State, owing in part to the meager earnings, and in part to an effort to pay interest on bonds and dividends on stock, starve the roadbed, and ties are permitted to remain long after they have served their full life. The average life of a first-class oak tie is seven years, making it necessary to renew 400 ties each year, or a total for main line in this State of 4.276,400 ties, while some of the best roads do make renewals at this rate, the total consumption will not reach more than one-third of this amount. The spiking is in many instances one-half or two-thirds done, this generally obtains where ties are poor, and poor ties coupled with half spiking gives results dangerous to traffic. Gauge, inspection of rails, elevating curves, joints, cattle guards, drainage, switches, frogs, crossings, etc., all need the most careful attention.

The question of accident to switchmen from being caught in frogs has called forth considerable discussion and some legislation in the different states. In Michigan, all railroads are compelled by law to fill all frogs so that the foot cannot be caught and held. This law was passed in 1880, and empowered the commissioner with the duty of prescribing the kind of filling to be used. The result seems to have proved satisfactory, for in 1885 but one accident occurred in that state from this cause, and in 1886 none occurred. The wisdom of the law seems to be vindicated by results.

That there is considerable danger from this source is evidenced by a letter written to the Hon. J. Hennessy, one of the commissioners of Missouri, by the switchmen and brakemen on the various St. Louis roads, in which they request that he assist them in securing them against the many fatal accidents caused by being trapped in frogs and between the guard rails and thus run down, the letter continues by saying, "We do not pretend to say that the companies are indifferent as to the safety of their employés, but we do know that no device is being generally used to keep the feet of the switchmen out of these dangerous gaps between the rails and the frogs. The blocks sometimes inserted in the frogs afford no protection whatever."

The lack of uniformity in the location of buildings, stand pipes, semaphore posts and platforms is a fruitful cause of accident to both passengers and trainmen. The high platform, while convenient in mounting to car steps, is often the cause of accident to persons, who for various reasons, unwisely attempt to board or leave a train while in motion. The height of platform at passenger stations should be level with top of rail, at two feet distance from rail, rising from thence toward building to allow for drainage. Movable step platforms should be provided and placed by porter or brakemen to assist passengers in boarding and leaving train. At freight station buildings platform may be raised to level of car floor. No building, pole or stand pipe should be placed nearer than seven feet from center of track. The practice of placing stand pipe between tracks having but 13 feet from center to center, should be condemned. A general order fixing the distance, would, I think, prove beneficial.

#### HIGHWAY CROSSINGS.

The placing of whistling posts to warn enginemen of proximity to a public road is generally performed according to law, and the enginemen as a rule use the whistle to warn travel of the approach of train. Notwithstanding these precautions many people are killed at highway crossings. Of the 13,754 persons killed or mangled during the past year from causes unassigned, a large percentage were caught at highway crossings. This fatality is not by any reason all chargeable to lack of proper precaution on the part of railroad officials, for in addition to the warning by whistle and bell a proper warning sign is generally provided in plain view of traveler on highway. People becoming familiar with the danger do not exercise due caution in crossing the railroad track, and probably this fatality will continue until they are barred out of the track when train is passing. However, there are many points which may be improved by removing trees and bashes, which in many cases obstruct the vision of highway travelers, who, in winter time, with heads muffled by wraps to guard against exposure, cannot depend wholly on the sense of hearing to warn them of danger.

The construction of sub or super ways for highways is without doubt the proper way to prevent accident from this cause. The State of Massachusetts co-operating with the railroads of the State have provided for the expending of five million of dollars in constructing sub and super ways. Many dangerous crossings have been eliminated by the railroads working with the county commissioners in this State, and it is the expressed desire of many of our railroad managers to provide these safeguards where it is possible to do so at reasonable expense.

When it is understood among railroad officials that the State is keeping watch over the many details pertaining to the safety of track, bridges, etc., by careful inspection and supervision, there will be a marked improvement, and many existing features known to be dangerous will be eliminated.

#### HEATING PASSENGER CARS.

The first appliance for heating passenger trains in this country was the simple wood stove, providing no protection to passengers in case of overturning, mashing and consequent burning in case fire was in use at the time, resulting in death or injury by burning. For some years the public submitted to this dangerous element, considering it a necessary evil. The wood stove was gradually replaced by a so-called safety stove, claimed to be perfectly safe, even though the car containing it was destroyed. The repetition of horrible deaths by burning, charged to the presence of the car stove, were chronicled in the newspapers from time to time, until in 1887 "the deadly car stove" was voiced against by travelers. The appalling horrors added to the Ashtabula disaster by the burning of living men, women and children, and their cries echoed through the press, seemed to arouse the multic to take some action to provide against the recurrence of arouse the public to take some action to provide against the recurrence of similar disasters. The winter of 1886 and 1887 brought a series of disasters. The Rio disaster on the St. Paul road in October, 1886, when 17 persons were burned to death: the Republic wreck, January 4, 1887, when 13 were held beneath timbers and slowly burned to death before friends helpless to assist and avert their agony, and the killing and burning of 30 more at White River, Vermont, added to already excited feelings against the car stove, seemed to indicate that the time had come when decided action must be taken to find a substitute. At that time the heating of cars by steam from the locomotives was in an experimental state, being little used except upon the elevated road in New York City. Public opinion, inflamed by the "Spnyten Duyvil" disaster, was so strong against the use of the ordinary car stove used in Massachusetts that the legislature of that State enacted a law in 1882 providing that all cars owned or regularly used on any railroad in the State, and furnished with heating apparatus, are to be provided with such safeguards against fire as may be approved by the commissioners. And again in 1887 provided "that in no event shall a

common stove be allowed in any such car." New York took similar action, providing "that after May 1, 1888, all railroads doing business in that State must not heat their passenger cars or other than mixed trains by any stove or furnace, etc." The use of the present stove was allowed where cars were standing on sidings, etc. This did not restrict the use of the cooking stove.

The heating of cars by steam from locomotive is now an accomplished fact in the State of New York.

Michigan, in 1887, provided that on and after Nov. 1, 1888, that railroad companies must make effective provision against the burning of cars in which passengers are carried. The commissioners of Connecticut were authorized after Sept. 30, 1887, to order any system of heating which they deemed proper. But after trial and examination of the various systems offered do not in their report of 1889 recommend any system of steam heating, but are so far convinced that some system of continuous heating will be perfected that in a circular dated July 10, 1889, to officials of railroads operating in that State, they say "we recommend that you do not equip or purchase any cars equipped with any system of heating which cannot be readily adapted to the use of steam or hot air. We believe that some system of continuous heating will soon be perfected which can be prudently and safely adopted * * * *. Further experiment should be encouraged for the purpose of developing some system of train heating which will give a uniform temperature throughout the cars of our longest passenger trains, attended by the fewest possible elements of danger from fire, or from the explosion of steam in case of accident, collision or over-turning of cars." Notwithstanding the commissioners' lack of faith in the success of any system of continuous steam heating, as now perfected, the most prominent railroads of their State have sufficient confidence to war-want them in equipping their passenger cars for steam heating, thus de-monstrating their faith both in the economy and safety of its use.

The subject of safely heating was taken up by the railroad companies through their master car builders some time before the matter was made a subject of State legislation. The president of the M. C. B. in his annual address to the society convened June 12, 1883, said: "The present manner of warming passenger cars during extreme cold weather in our northern states is far from satisfactory. How to furnish heat without injury to passengers from fire, steam or hot water in case of accident is one of the problems yet to be solved: and as inventors have not as yet presented a device removing such liabilities, it is incumbent on all master car builders to study carefully how to arrange the available heaters to obtain the best results as to comfort and safety," and their committee in their report of same year say that "steam in all cases is preferable for heating cars * * * In case of derailment or collision, safety demands the heater to be placed outside of the cars."

During the winter of 1887–'88 tests were made of the various systems of continuous heating. The result shows that 18 different systems were on trial, comprising straight steam, indirect radiation, hot water, water and Baker heater pipes, steam and water circulation. Thirty-three railroads using the systems, represented by the 18 companies, report but two failures to give satisfaction, and the general result was very satisfactory. At the close of year 1888 the Martin system was in use on 141 locomotives and 416 cars; the Sewall on 205 locomotives and 295 cars. the McElroy on 90 locomotives and 120 cars; N. Y., L. E. & W. Ry., 102 locomotives and 336 cars; L. V. R. R. system, 50 locomotives and 50 cars; N. Y. Safety C. H. and L. Co., 44 locomotives and 93 cars; C., M. & St. P. Ry, system. 37 locomotives and 76 cars; B., C. & Nor. Ry, system, 28 locomotives and 65 cars; Standard C. H. & Vent Co., 3 locomotives and 16 cars; Penn. R. R. system, 1 locomotive and 6 cars; N. W. M. C. Heating and L. Co., 3 locomotives and 3 cars, and Erie Car Heating Co., 1 locomotive and 4 cars.

Many railroad companies have adopted steam heating systems of their own.

Many difficulties have developed themselves since the question of continuous heating was first discussed. The heating of cars while detached from engine, condensation, probable effect on steaming of locomotive. couplings; etc., have been considered, and the objections are to a great extent overcome. In all cases the necessary heat for cars where detached from locomotive is obtained by starting fire in stoves, which must be extinguished before car leaves station in train.

The fullest information concerning the general use of steam heat is very difficult to obtain, some roads using several different systems. The B. & O. uses 3 different systems, with a total of 107 cars equipped. The N. Y., L. E. & W. uses 5 systems on 572 cars, of which number 529 are heated by direct steam on a plan of their own devising. On 12 roads east of Chicago 1.955 cars are equipped with 15 different systems, and on none of these roads has there been shown to be any effect on locomotive by reason of drawing steam from it.

The coupler is not so serious a question as many will argue. While there are many devices for steam coupling, such as the Erie, a metallic, the Martin, Sewall, Gibbs and others, a type may be agreed upon by the railroad companies if the equipping of cars is made compulsory.

Plate IX. shows application of the system offered by the Safety Car Heating and Lighting Co.

In order to use the Baker heater and its water circulating pipes, with which most of the first-class roads have equipped their cars, it was found that a system of indirect steam would meet the requirements best and at the least cost. In this system the steam is conveyed from locomotives to steam jackets, which surround the pipe, as shown in diagram. In this system the steam in jacket and salt water in pipes do not come in contact, and the heat being applied at three points, the circulation is kept up and the water heated faster than if Baker heater was used. When car is detached from train a fire may be kept up in Baker heater, without in any way interfering with steam heating system. The condensation of steam is discharged through a trap.

Five railroads centering in Chicago use this system, which is used to some extent on 18 railroads, and by the Pullman and Wagner Sleeping Car Companies.

The Consolidated Car Heating Co. offer three ways of supplying continuous steam heat. The first system, called the McEhroy commingler system, is illustrated in Plate X. This is also used with the Baker heater, but instead of heating water indirectly, steam is introduced into the water of the pipes through a device called a commingler, shown in right hand corner of Plate X. To prevent the disagreeable clacking noise noticeable where steam and water occupy same pipe, the vessel is filled with gravel. The heated water and steam run to the expansion drum, and passing round car returns through Baker heater to commingler to be again heated. This system seems to present many favorable features, and is the outgrowth of the Westinghouse and McElroy systems. Fire is applied to water coil in Baker heater when locomotive is not attached. Pipes may be emptied after car is through service, and steam may be blown through when car is wanted for service. The condensation will fill pipes: at the same time the car will be quickly warmed by radiation from live steam. This system may be used for direct steam or water circulation.

The Sewall drum system, as illustrated on Plate XI., is an example of indirect steam heating, using Baker heater and pipe circulation. The steam is admitted into the drum, shown in right hand corner of Plate XI. Through this drum is passed a coil of pipe connected with Baker heater. The steam surrounds this pipe, and heating the water starts the circulation through expansion drum, and from thence through pipes and back to drum.

The Gold Car Heating Company have equipped nearly 3,000 locomotives and cars, their system being used as standard on many railroads, while they use a system with a Baker heater as auxiliary. The plan they think best is illustrated in Plate XII. In the Storage Heat System, "four stor-

age heaters are used. Each heater is supplied with steam from the main supply pipe, to which it is connected near the end of the car." The heat is stored by a water cylinder hermetically sealed, owing to the large radiating surface in storage cylinders the temperature in the car is raised very quickly after steam is turned on. This system depends for its heat when detached from locomotive upon the heat stored in fluid contained in cylinders. While there is but little danger to passengers from scalding, should a car be wrecked and pipe broken, the steam vaporizing, when coming in contact with the air, will fill the car, obstruct the vision and frighten the occupants. To guard against the possibility of such an event, J. R. Droziski, of the Erie Car Heating Company, has invented an automatic steam shut-off, a diagram of which will be found on Plate XIII. The machine is placed upon the locomotive in the engineer's cab in a convenient place where it may be connected with the steam and air pipes and requires no additional attachment on cars. When it is necessary to use steam before air is pumped, the engineman grasps the handle, pressing the catch lever marked C, operating a lever B inside of handle A. When the handle A is released the lever B keeps the rubber gasket D one-six-teenth of an inch from seat. The gate is now open in main steam pipe. The automatic feature of this machine is accomplished by the use of air taken from the main air pipe and conducted to cylinder F. As soon as the pressure is let into cylinder F, the piston is forced up against seat E, at the same time releasing lever B, which returns to its normal position in handle. While the air pressure is on, the gate in main steam pipe is open. If for any reason the train is parted and air is broken, the gate in steam pipe is instantly closed by force of spring H.

"Steam." "hot water," "hot air" and electricity have been experimented with for the production of heat, practical results seem to favor indirect steam heating in connection with Baker heater, or storage heaters, direct steam with or without Baker heater, and the commingling of steam and water, in connection with the Baker heater and piping.

#### LIGHTING PASSENGER CARS.

The danger to life and property in the presence of the oil lamp generally used for lighting passenger trains, is not as great as many people believe. The oil being refined to such a degree as to prevent igniting while in a body. However, should one of these reservoirs containing oil be broken and the contents scattered over the cushions, carpet and wood-work of the car it then presents its best condition for combustion. While accidents resulting in death from this cause are rare, the expense of maintenance of oil lamps, as well as the desire to provide an attractive and efficient light which would be free from the dangerous qualities and general imperfections of the oil lamp has caused investigation to be made looking to improvement in the system of lighting passenger cars.

The use of common gas has not proven satisfactory, as under compression necessary to store a sufficient quantity for supply on a trip the gas losses too much of its illuminating power. The use of a refined gas in Germany attracted attention in the United States, and the results obtained from it seemed to warrant its introduction on our railroads. This system known as the Pintsch system has since been introduced on many of our railroads. The patentee, Mr. Julius Pintsch, perfected his plans in Germany during the year 1870. The gas used for this light is manufactured from crude petroleum, or the residual products of coil oil distillation. The gas is manufactured at terminal points and stored in powerful cylinders from which it is piped between the tracks, with convenient cocks at intervals from which a supply is drawn into the receiving cylinder, fixed under the body of the car. This cylinder is of iron, capable of sustaining a pressure of 250 pounds per square inch, and is charged to 150 pounds. The capacity of cylinder or tank is about 185 cubic feet. A pressure of 150 pounds would be many times too great to use at the burner, a regulator is used which provides the gas at the burner at a pressure sufficient to produce a steady, mellow flame, and is so nicely adjusted as to furnish just enough, whether the flame is desired full or low.

The lamps are generally furnished with four burners inclosed in a glass globe which perfectly shields the flames from disturbing currents of air. A glass reflector is placed above the burners which distributes the flame and adds brilliancy to the illumination.

I have no record of any accident involving loss of life or injury to passengers through the use of this system, and it appears that the dangers incident to the presence of gas of any kind, stored on car which is liable to be set on fire from many causes, has been brought to a minimum. The only opportunity for adding to the danger of burning wreck, would be from the escape of gas from broken pipe. The pressure of gas in tank is so great that if the shell should be perforated the force of gas escaping would extinguish any flame that would be likely to reach the aperture. The explosion of tank is guarded against in its construction, the joints being made in such manner as to release the gas before pressure is raised to limit of resistance of shell.

This system has been in use 20 years, and since its introduction to the United States has been greatly improved. The system claims to furnish a bet, safer and cheaper light than can possibly be furnished by oil lamps.

, sater and cheaper light than can possibly be furnished by on famps.

January 1st, 1890, this system was in use upon 33,500 passenger cars in Europe, United States. South America and Australia. Plate XIV shows the location of tank, regulator, pipes, lamps, etc., on a passenger car.

The Frost Dry Carburetter system which has been introduced on many of the trunk lines of the United States and made the standard on some lines, has equipped 633 passenger cars on lines east of Chicago. The gas for the light in the Carburetter system is manufactured at the lamp, or rather in Carburretter near lamp, by the forcing of air through a metal spiral filled with cotton wicking saturated with refined gasoline. The air is supplied from cylinder under car used as a reservoir, being supplied with air under compression from the main brake pipe. The gas is simply air carrying a certain amount of gasoline vapor. In this system there is no need for gas plants, as its carburetter with its air connection, is a gas generator.

The Carburetters are charged from top of cars, with only so much gasoline as the cotton wicking will absorb. The mechanism is so arranged as to prevent overcharging, and consequent presence of free oil.

Plate XV shows the Carburetter system as applied to passenger cars.

In order to determine if the pressure of gasoline absorbed in cotton wicking as held in carburetter would prove an element of danger in case of car being wrecked, trial tests were made at Altoona in June of this year.

It has been claimed by the rival system and some technical journals that a carburetter might be ruptured and a car flooded with volatile and inflammable gasoline; or that in case of fire the rapid vaporization of the gasoline in the carburetter would cause explosion. The tests at Altoona did not show these elements of danger.

A perfect light for passenger cars should meet the following requirements:

1. It should be safe.

- 2. It should ventilate the car perfectly.
- 3. It should furnish mellow and effective light to all parts of the car.

4. It should be simple in construction and operation.

5. It should be constructed, operated and maintained at minimum cost.

I think either of the systems described offer safety, better and more economical light than can possibly be furnished by oil lamps.

#### CONCLUSIONS.

1. That automatic train brakes should be provided on all cars and locomotive engines. With this provision, accidents from exposure, falling from train, overhead obstructions, etc., would be reduced to a minimum, and overhead crossings could be built at much less expense.

2. That the Master Car Builders' type of automatic car coupler is the best type in the market. That its universal use in connection with train brakes will prevent great loss of life.

3. That the absolute block system should be used on lines where traffic is dense.

4. That a code of uniform signals should be adopted, in which form and position governs by day and night.

5. That all railroad crossings at grades which may hereafter be constructed should be protected by a system of interlocking and signals. That a portion of existing railroad grade crossings should be protected in like manner each year until all are so protected.

6. That all freight cars be carefully inspected to provide against the damages to trainmen from defective parts.

7. That the Railroad and Warehouse Commission be furnished with complete statistics bearing on the physical condition of each railroad in the State. That each railroad in this State should furnish the Railroad and Warehouse Commission a certified copy of plan of each bridge exceeding a span of sixteen feet.

That the standard plans for minor structures be also furnished.

That a copy of the general rules governing the train and track force be also furnished.

That a careful inspection be made of each railroad in this State at least once each year.

8. That, where practicable, the grade of railroad and highway crossings be separated. That it is possible to remove many obstructions to vision at grade crossings at small expense.

9. That the heating of passenger cars by steam from the locomotive is practicable.

10. That the kerosene oil lamp should be superseded by a system of lighting which will reduce the danger of accident by burning.

#### ADDENDA.

In concluding my report upon the use of safety appliances in the operation of railroads, and summing up the results obtainable when the best appliance of its kind is put in service, the question naturally arises as to what is the best method of securing the results aimed at.

Opinions have been expressed by the Railroad Commissioners of some of the States, and the report of the Inter-State Commerce Commission for 1889 contains an exhaustive review on this subject of State and federal legislation. While the solution of the proper method will probably be arrived at through persons conversant with questions of legislation, there are certain mechanical and engineering features pertaining to the subject of which one unfamiliar with the subject may not be advised.

The business of conducting the railroad traffic in this State, if the extent of operated roads was limited by the boundary of the State would be comparatively simple. The business is not, however, confined to the limit of State control or the boundaries of the United States; it is international. Changes from established methods should be well considered before recommended, as the expense is an item which cannot be overlooked. Railway managers who have won position by faithful and intelligent labor, guarding alike the interests of the public and the property in their charge, wisely hesitate to adopt new methods which have not been thoroughly tested by practice. Yet these same men, mindful of the welfare of those intrusted to their supervision and care, with the clear insight into the multifarious necessities of the safe and successful conduct of the business in their charge, are the first to acknowledge the necessity of guarding every point of danger. The necessity of improvement in the many devices of which my report treats, is evident to them, but without the coöperation of the directory the managers are powerless to move in the matter.

Uniformity must be the aim of any movement toward success. There is no question but what we have in the market a continuous air brake and car coupler which, if used in all traffic, will reduce the frightful fatalities and be an investment well made; but this cannot be controlled by independent State legislation.

I believe the result may be obtained by national legislation requiring the equipment of all new passenger and freight cars with an interchange-able form of automatic train brake and automatic close couplers, and when renewals are made all such renewals should be made in accordance with the standard adopted. The provisions of such an act should include any protection which is necessary in interstate business. Such an act needs no new officers to carry out its provisions. The several State commissioners should be charged with the duty of inspecting thoroughly the equipment of the several railroads within their respective States. Of such features of the railroad which are entirely within the State, I would respectfully call your attention to the necessary improvements indicated in my report of Maintenance of Way. The inspection of bridges, location of buildings, platforms, filling of frogs and guard rails and the protection of life at highway crossings, as well as the further extension of control of the interlocking and signaling. No provision is made for the inspection of interlocking plants after they have been accepted by your Commission and put into operation. Derails may be spiked, detector bars or other important parts of a plant may be removed, the system changed to admit of dangerous elements, and no knowledge of such change be in the hands of the commission. Inspection of these complicated plants should be made at regular intervals. I do not believe that changes would be authorized by any company through its superior officers without first consulting your Commission, but that changes are made is a fact, being of so frequent occurrence in Michigan that a special inspector has been appointed charged with the duty of looking after all subjects pertaining to the physical and mechanical operation of the railroads of that State.

So much material of interest is presented to me in making this report that volumes could be written. I trust that I have embodied in this report such features of safety appliances in the operation of railroads as will be of general information.

Respectfully submitted,

CHAS. HANSEL,

Consulting Engineer.

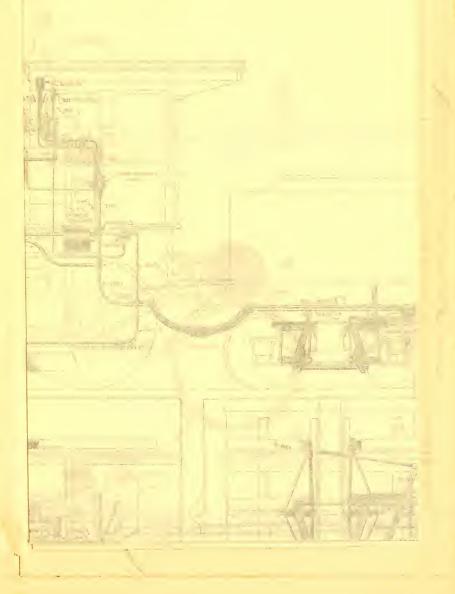
PLATE. I.

Railroad accidents for year ending June 30, 1889.

COMPARATIVE STATEMENT UNITED STATES AND ILLINOIS.

	Total Illinois.	Injured.	414 63 30 64 1,105 1,706
	Total I	Killed.	21 21 35 35 473 473
	Total United States.	Injured.	26, 757 2, 011 2, 011 2, 296 1, 1313 1, 778 1, 778 1, 778 1, 778 1, 778 1, 788 1, 788 1, 788 1, 788 1, 787 1, 787
	Total Unit	Killed.	300         6, 757           413         2, 011           315         1, 313           316         1, 313           317         1, 313           318         1, 778           182         1, 778           182         1, 778           182         1, 778           182         1, 778           182         1, 778           182         1, 778           183         1, 778           185         1, 778           185         10, 800           5, 823         26, 309
UNITED STATES.	Other persons.	Injured.	48 69 634 634 634 472 4,135 4,135 4,135
UNITED	Other p	Killed.	2, 215 322 322 328 328 328 328 328 328 328 329 300 360
	Passengers.	Injured.	389         32           445         337           389         337           389         34           29         34           29         32           255         522           256         323           754         2,215           754         2,316           2,146         3,541           116         3,541
	Passel	Killed.	26 107 120 120 120 120 120 120 120 120 120 120
	Employès.	Injured.	$\begin{array}{c} 8, 757\\ 2,011\\ 2,96\\ 820\\ 820\\ 655\\ 1,016\\ 45\\ 655\\ 7,729\\ 7,729\\ 20,028\\ 1,138\\ \end{array}$
·	Empl	Killed.	300 4303 655 1255 1255 1255 1255 1355 1355 1355 13
	KINDS OF ACCIDENT.		Coupling and uncoupling cars. Falling from trains and engines. Falling from trains and engines. Colli-ions. Detailments. Detailments. At highway crossings At stations Other causes Total for United States. Total for Illinois.

# ESTIMEHOUSE AUTOMATIC BI



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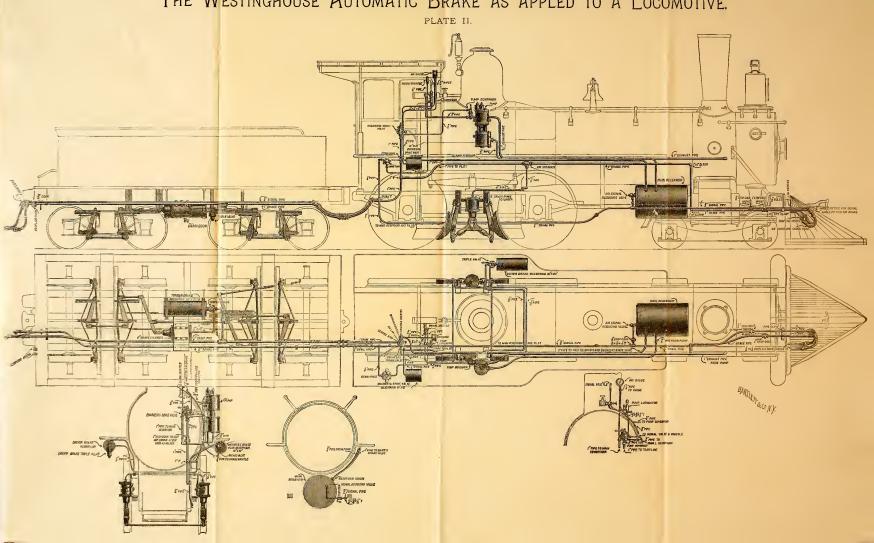
Railroad accidents for year ending June 30, 1889.

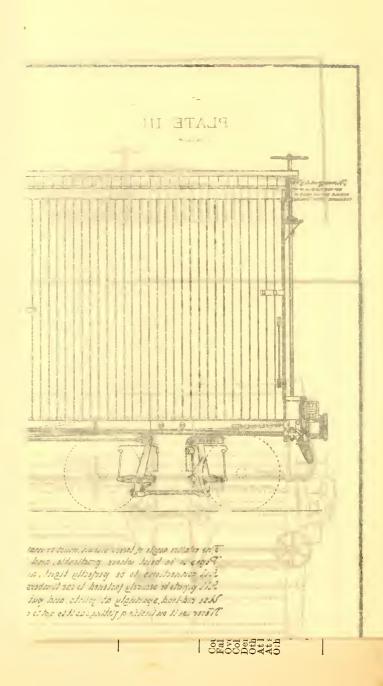
COMPARATIVE STATEMENT UNITED STATES AND ILLINOIS.

	-				UNITED	UNITED STATES.				
KINDS OF ACCIDENT.	Employès.	oyès.	Passe	Passengers.	Other p	Other persons.	Total Uni	Total United States.	Total I	Total Illinois.
	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
Coupling and uncoupling cars. Falling from trains and engines. Out-inea. Obstructions	300 493 493 493 655 125 739 739 1,972 1,972 1,972	$\begin{array}{c} 2, 757\\ 2, 011\\ 2, 011\\ 296\\ 652\\ 1, 016\\ 45\\ 45\\ 45\\ 45\\ 7, 729\\ 7, 729\\ 1, 188\\ 1, 188\end{array}$	60 8888889 90 80 80 80 80 80 80 80 80 80 80 80 80 80	107 28 28 28 28 277 28 28 277 29 271 26 25 310 2,146 754 754 754 754 754 754 754 754 754 754	37 37 37 37 37 410 37 37 410 37 37 30 30 30	18 18 18 18 18 18 18 18 18 18	5, 83 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	6, 757 2, 011 2, 012 1, 113 1, 758 1, 757 1, 113 1, 758 1, 757 1, 113 1, 757 1,	21 21 7 35 35 473	444 30 64 1,105 1,706

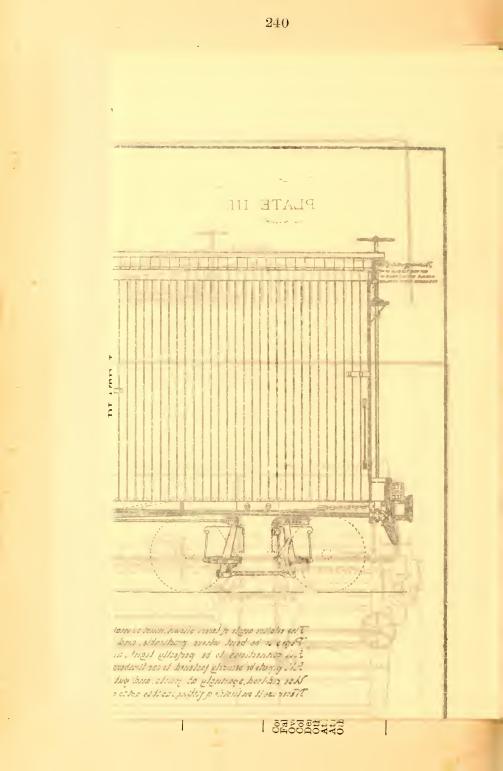
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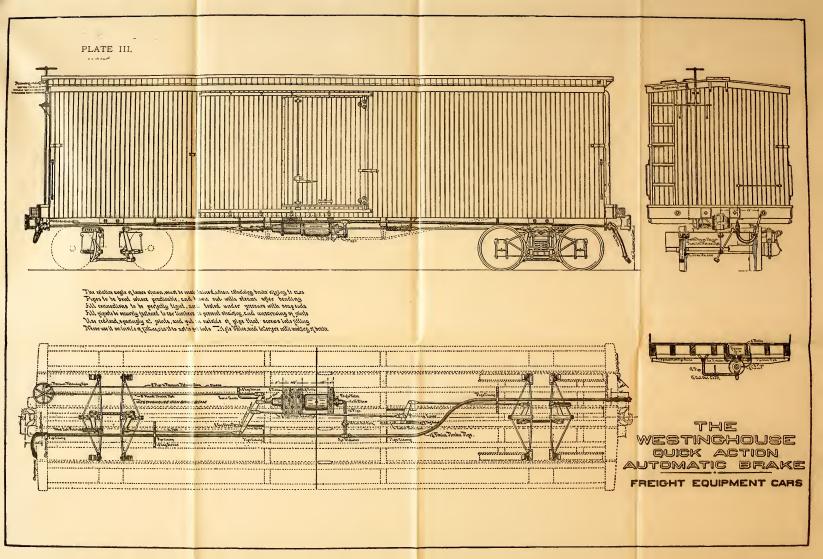
### THE WESTINGHOUSE AUTOMATIC BRAKE AS APPLED TO A LOCOMOTIVE.









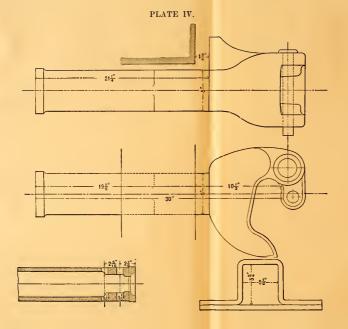


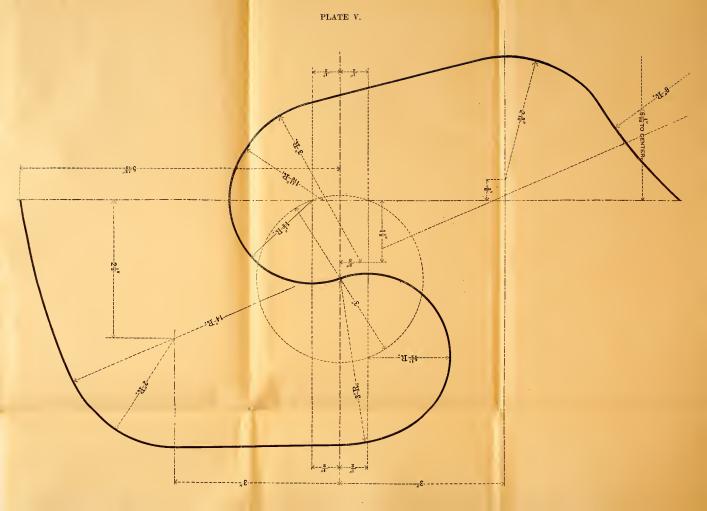


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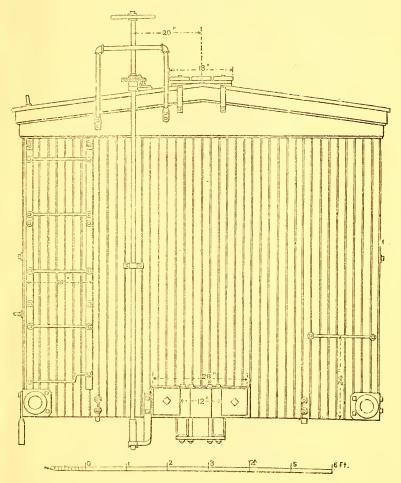












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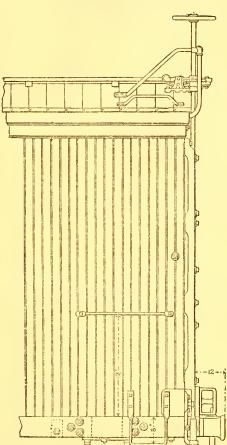
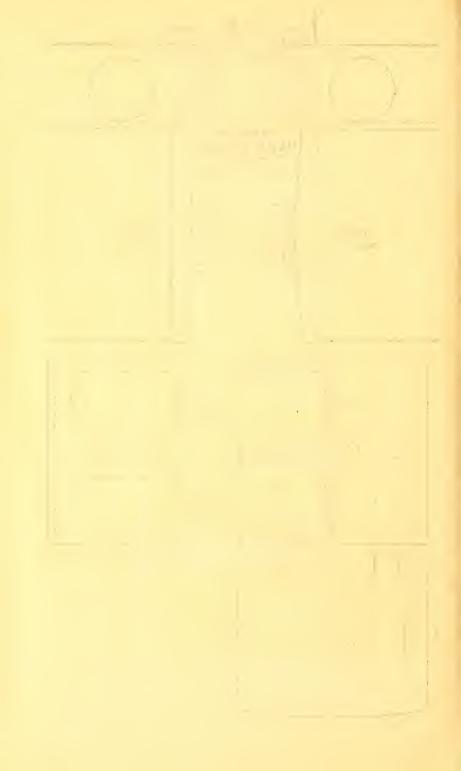


PLATE VII.



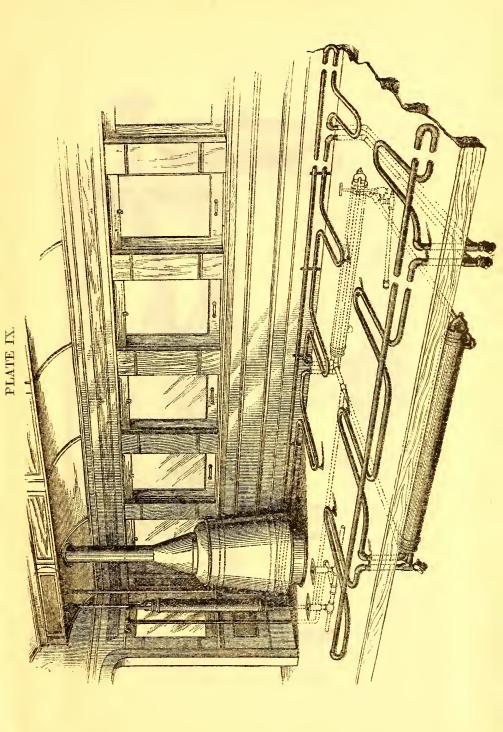
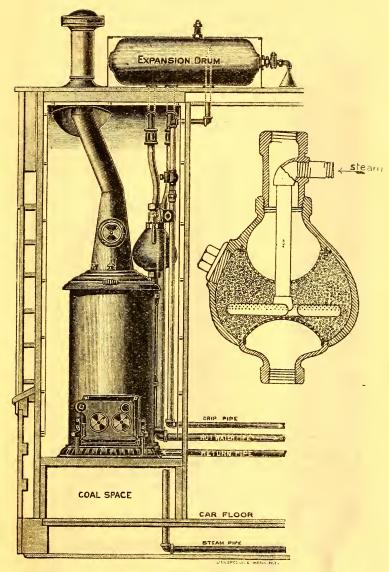




PLATE X.



COMMINGLER SYSTEM.

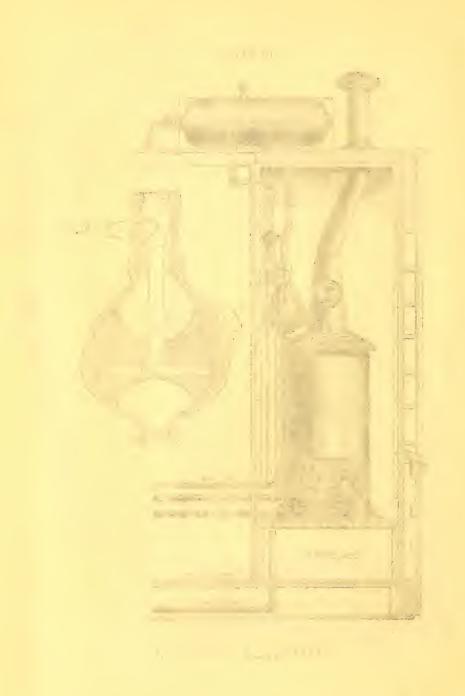
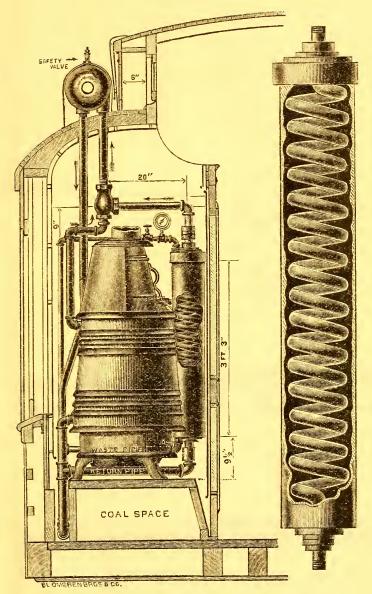
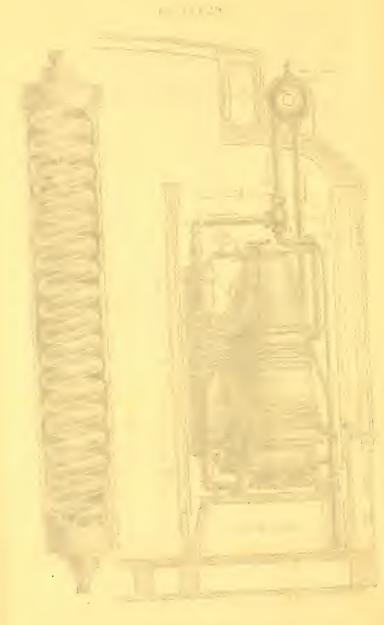
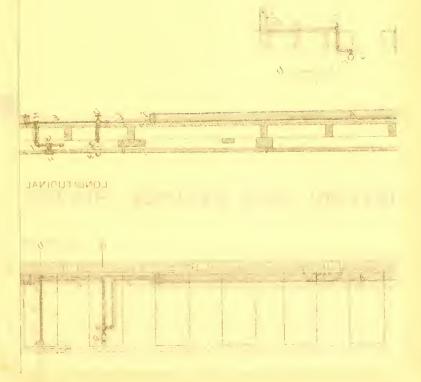


PLATE XI.



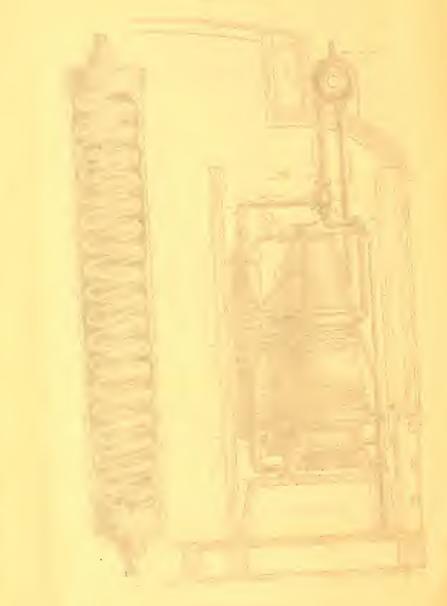
COIL DRUM SYSTEM.

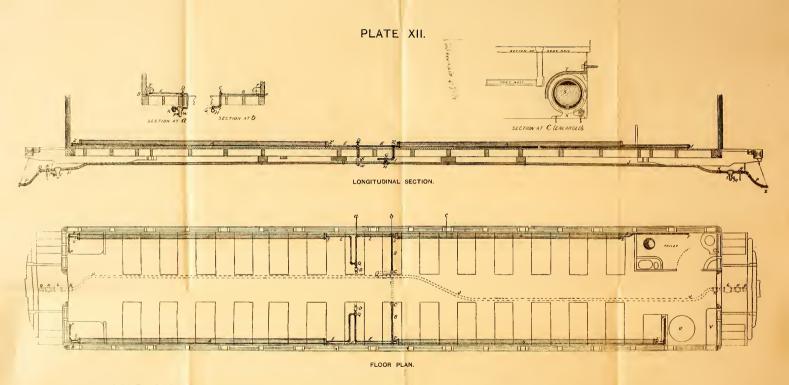




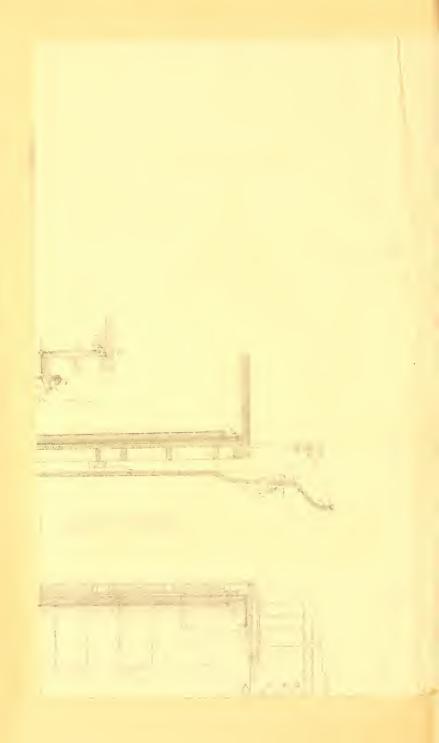
PLATE



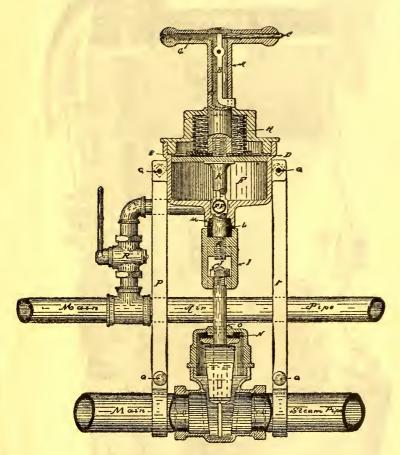




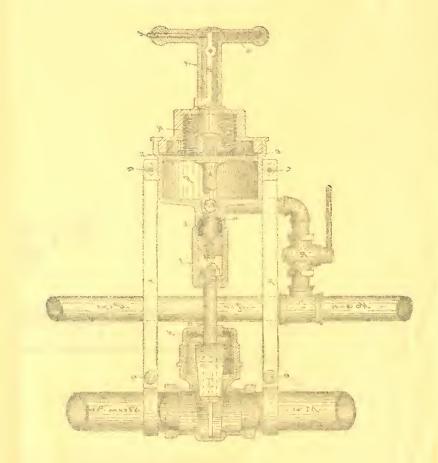
GOLD CAR HEATING CO.'S STORAGE HEATER SYSTEM OF WARMING PASSENGER CARS.

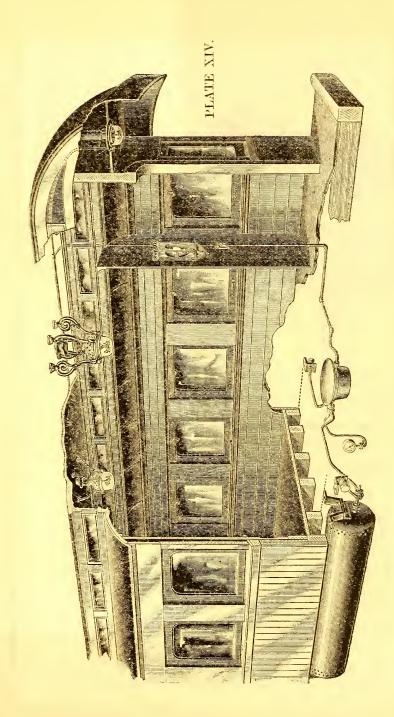


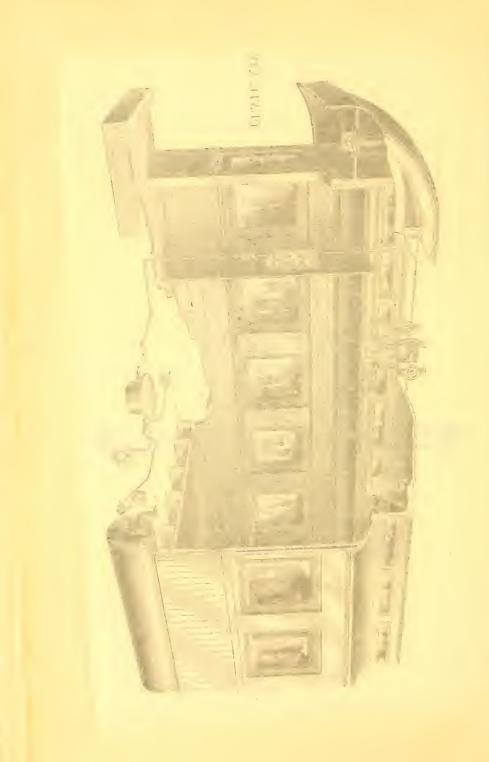
# PLATE XIII.

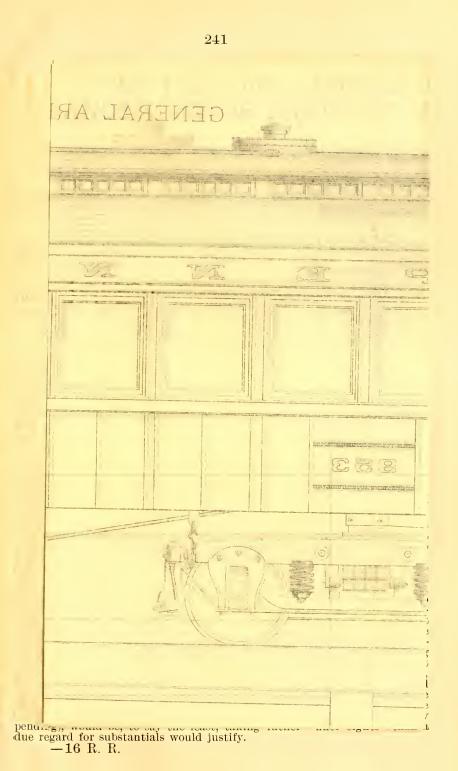


# FLATE XIII.

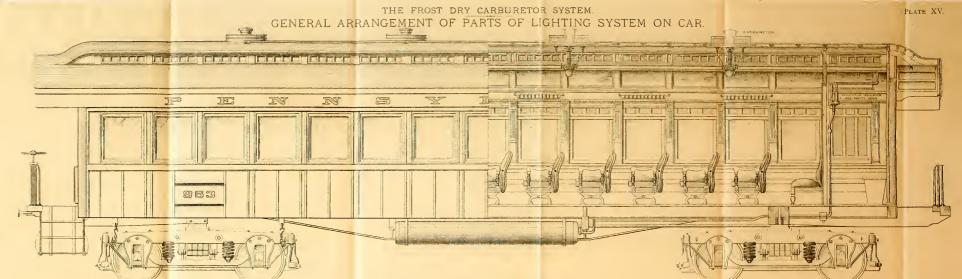




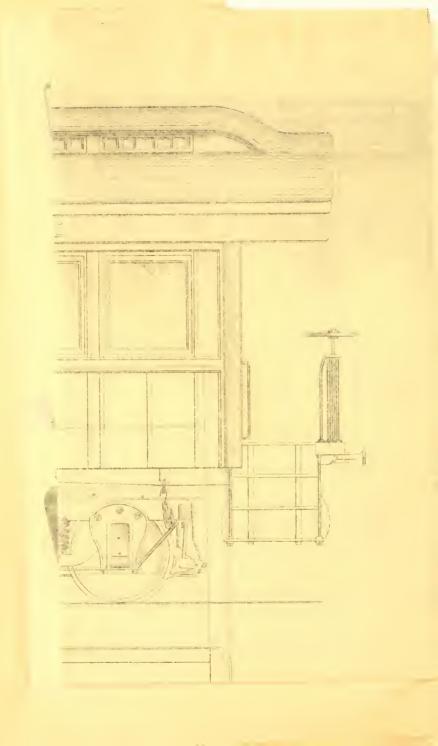








MAIN BRAKE PIPE	· · · · · · · · · · · · · · · · · · ·		
		YD CLOSET	



## No. 2.

# PETITION TO DETERMINE PLACE AND MODE OF CROSS-ING.

The Chicago, Madison & Northern Railroad Co., Petitioners,

VS.

# The Chicago & Western Indiana Railroad Co. and the Pittsburgh, Ft. Wayne and Chicago Railway Cc., Respondents.

#### OPINIONS OF COMMISSION.

### Opinion by Phillips, Commissioner:

Petitioner proposes to cross with its two main tracks, the tracks of the respondent companies upon and near Stewart avenue, in the city of Chicago. It alleges that objection to the proposed crossing is made by respondents, and asks that this Commission enter an order under the act of 1889, prescribing the place where and the manner in which said crossing shall be made. Such formal matters are alleged in the petition as bring the case within the statute.

The first point made relates to the jurisdiction of the Commission, which is questioned upon the ground that respondents did not, prior to the exhibiting of the petition, make specific objection to the crossing as now proposed. The statute says: "If in any case objection be made to the place or mode of crossing proposed by the company desiring the same, either party may apply to the Board of Railroad and Warehouse Commissioners, etc." Whether objection to the precise proposition now contained in the petition was ever in terms made by respondents or not, there is no doubt etc." at all that objection is now being made to it, and there is further no doubt that objection to any crossing, unguarded by interlocking devices, has all the time existed, whether such objection was ever formally expressed or not. Ordinarily when a defendant concedes the right claimed in a suit, he comes into court offering to perform all that is demanded, and saying he has ever been willing, and thus makes a question as to plaintiff's right to costs. But there can be between these parties no question of costs, because the statute makes petitioner pay the costs, without regard to the fate of its petition. Were this otherwise, that is, were the costs to abide the result of the suit, as in ordinary cases, and were respondents now disclaiming all objection to petitioner's proposition, offering to let the crossing be constructed as proposed, and asking a dismissal at petitioner's cost upon the ground that no objection had ever been made, the position would better commend itself to our ideas of consistency and justice. But to say, "we now object, but did not formally do so before suit, wherefore we ask that petitioner go out of court," (only, it may be added, to come immediately back again with the sume proposition now pending), would be, to say the least, taking rather "finer sights" than a due regard for substantials would justify.

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The objection to the jurisdiction should therefore be overruled.

It is contended that the crosssing as proposed by petitioner will, if constructed, occasion danger and delay, and that the Commission should, as the case stands, do one of two things, namely: First—either refuse the prayer of the petition and deny the crossing altogether; or, Secondly—allow the crossing only upon condition that a system of interlocking switches and signals be put in covering these crossings and such other points in the neighborhood as would necessarily be comprehended in a practical system. It is strenuously urged that this Commission has power to do either of these things.

To these questions a few words will now be devoted.

And first, would it be proper to simply refuse the prayer of this petition, without making any affirmative order for a crossing? The statute says: "After full investigation, and with due regard to safety of life and property, said board shall give a decision prescribing the place where, and the manner in which said crossing shall be made." This is not equivalent to saying, if the proposed crossing is safe and proper the Commission shall authorize it, and, if the contrary, refuse it. Some crossing, in some place and mode, must, in any event, be provided for; and the decision must "prescribe" a crossing, not deny one. It need not necessarily be the same crossing prayed for in the petition, but may differ from that in place and manner, the word "manner" being used in the sense hereinafter assigned to it. We might vary the place of crossing; and we might compel a crossing over or under, or a crossing at a different angle, or a crossing constructed with different frogs or appliances from those proposed. We might, in short, vary the proposition in any particular which refers tothe manner of the location of the tracks of the one company across the tracks of the other company.

But, in this case there is no contention for a crossing in a different place or in a different mode from that proposed. The Commission might, of its own motion, have the neighborhood of the crossing examined by expert engineers with a view to some variation of place or mode. The interests of respondents are, however, a guarantee of as high vigilance to find a better place and mode as would likely be exercised by any experts we could employ; and since no other place or mode claimed to be better is suggested by any of the parties interested, we may safely conclude a grade crossing in the place and manner proposed will occasion as little danger and delay as any we could select; and a decision must, on this point, be made accordingly.

It only remains, therefore, to determine whether the Commission has power to compel the petitioner, or the parties generally concerned, to guard and operate this crossing (which, we have seen, must be authorized), by means of an interlocking system. Is an interlocking plant embraced in, or any part of, a "crossing," as the term is used in the act of 1889?

The question is a new one. In each of the cases arising under this law, previously decided by the Commission, the petitioner stipulated before the Commission to put in and maintain interlocking devices; and the order entered in each case only embodied the stipulation, without the Commission having really considered the question of its power under the statute in the absence of agreement. The question is therefore as open as though nothing had been contained in the former decisions upon the subject.

The respondents in this case have signified their willingness to submit to this Commission on their part the question of interlocking. We might therefore, so far as they are concerned, if petitioner were also consenting, make an order covering the subject by way of arbitration, exercising not the power conferred by statute, but by the parties. But the petitioner is not consenting, and stands upon its legal rights.

It may be premised that an interlocking machine would be of no efficacy, unless provision were fully made for its maintenance and future operation. It would therefore be idle to order the construction of a plant, unless we have power to go further and order its maintenance, and its use at this crossing, and clearly, if one power exists, the other must exist also, or the law is futile.

It may be further premised that interlocking devices have more particular reference to the speed of travel than they do to safety. The legislature of this State has for the safety of the public, provided by general statute a certain measure of caution to be observed at all railway crossings, which statutory regulation is as follows:

"All trains running on any railroad in this State, when approaching a crossing with another railroad upon the same level. * * * shall be brought to a full stop before reaching the same, and within eight hundred (800) feet therefrom, and the engineer or other person in charge of the engine attached to the train shall positively ascertain that the way is clear and that the train can safely resume its course before proceeding to pass the * * * crossing."

This precaution is enjoined under a penalty of \$200.00 against the engineer in charge of the train, and \$200.00 against the corporation. Lately, interlocking devices have been brought into use, by means of which the delay from these full stops at crossings may be avoided; and in 1887 the legislature of this State passed a law recognizing these devices, under which law the operating companies are empowered to voluntarily interlock their crossings, and with the sanction and approval of this Commission. run them without stopping. It is the desire for speed, far more than safety, which leads to interlocking. Indeed, it may be questioned whether the use of any device yet invented is more safe than to obey the statutory injunction and come to a full stop.

If, now, we examine more closely this statute of 1887 which did confessedly give to the Commission certain power with reference to interlocking plants, we find that when the legislature had this subject of interlocking before them, and were professedly acting upon it, they gave to the Railway Commission no power to force interlocking upon any unwilling company. Under that act the companies must, by mutual agreement, set up, equip and arrange for the operation of the interlocking plant, leaving to the Commission only the function of inspection and approval. The legislature must have known that there were many old crossings in Illinois where the danger is as great as at the new ones, and the delay, vexatious to travelers. Yet they did not see fit to provide for any other or further interlocking plants than could be mutually agreed upon by the companies concerned. Had the legislature intended to invest this Commission with power to guard the public against danger and delay by means of interlocking devices, is it not reasonable to suppose they would have conferred that power clearly and unmistakably, and have done so in the act upon that particular subject, instead of leaving so important a power to be gathered incidentally, and purely by implication, from an act embracing a wholly different subject matter? And would they not, while about it, have made the power broad enough to include other crossings besides newly constructed ones, which other crossings are as much within the mischief as any: and their equipment could surely as well be paid for by old established companies as that of new crossings could by new and presumably weaker companies?

Nor is this all. This act of 1887, while giving the Commission power to approve crossing devices voluntarily put in, confers no power whatever to compel their continued use and maintenance. The companies which mutually agree to interlock a joint crossing, may mutually agree to abandon the system, and go back to the statutory method of coming to a full stop, and this Commission could exercise no control over their free choice in that particular. It would be interesting to know how we would justify the exercise of a greater power under the act of 1889, which says no word about interlocking, than we could exercise under the act of 1887, which does professedly embody the legislative will upon that subject. And, as before observed, unless we can compel the maintenance and use of a plant, to order its construction, at a cost of many thousands of dollars, would be Such being the state of the law when the act of 1889 was passed, let us now look at that particular act, and see if it confers any such power as is here claimed, either expressly given, or necessarily implied.

The most careful reading of the statute reveals to me no power whatever, over the subject of interlocking. The act meets only the case of how one company may cross "with its tracks the main lines of another railroad company." The confusion has arisen entirely through a misapprehension of what is included in the word "crossing." It is one thing for a company to cross the line of another "with its tracks," and another thing to cross the same point afterwards with its trains. The manner in which the tracks shall cross is one thing, and the manner in which trains may cross, or pass, and how they shall be operated, is quite another thing. When we speak of a railway crossing, we properly refer to the position of the tracks of two reads, and not to the passage of trains.

If the act is read with this distinction clearly in view, there seems to be no doubt as to its meaning. The title of the act, which may properly be referred to to aid in a doubtful construction, is in these words: "An act in relation to the crossing of one railway by another, and to prevent danger to life and property *from grade crossings*." Clearly, "the danger to life and property" which was to be prevented was that arising "from grade crossings", as distinguished from those crossings which are not at grade; that is to say: crossings either over or under, and nothing further than this was in the mind of the man who drafted this title.

Passing a step further we find the general declaration that a company "desiring to cross with its tracks the main lines of another * * * * shall construct the crossing at such place and in such manner as will not unnecessarily impede or endanger the travel, etc." It does not say the crossing shall be so guarded after construction as to secure reasonable safety and expedition, but shall be so "constructed" in the first instance as to secure that end. Unless the construction of a crossing can be said to include also both the construction and the operation of an interlocking plant, it is difficult to see what authority so far appears to do the acts contended for.

The same may be said of that clause of the statute which directs a decision "prescribing the place where and the manner in which said crossing shall be made." Here is nothing affecting the manner in which a crossing shall be guarded or the manner in which trains shall be operated across it, and it is a "crossing" that is to be "prescribed" and "made" and not an interlocking plant.

Section 2 of the act provides that "the railroad company seeking the crossing shall in all cases bear the entire expense of"—what? An interlocking plant to regulate the operation of trains at the crossing? Not at all. Shall "bear the entire expense of the construction thereof." How does the Commission from this derive the power to make petitioner bear another and much larger expense, not arising from the construction of the crossing proper, but having relation entirely to the manner of operating the trains of the companies?

It is agreed that an interlocking plant, to be effective at this point. must embrace certain crossing points on the Chicago & Alton and the Santa Fe tracks and right of way. Mr. Thomas, general manager of one of the respondents, testified on this point as follows:—

"Q. At Stewart avenue could an interlocking system be put in that would be safe, that did not include all of the tracks at that point?"

"A. It should include all of them."

"Q. That would include what tracks?"

"A. The Madison & Northern, Ft. Wayne & Chicago, Alton, and Western Indiana, and I think the interlocking of the lead track of the Santa Fe."

The Alton and Santa Fe Companies are not before us, and not parties to this proceeding. How, therefore, could we make an order affecting their property and controling the operation of their trains, which would be binding upon them? It involves only an elementary principle to say that parties who have not had their day in court cannot be bound by the judgment, even where the subject matter of the proceeding is within the jurisdiction. But where jurisdiction of parties and subject matter are both wanting, the very suggestion of such an order becomes little short of preposterous.

To further illustrate the want of power in the premises, suppose the respondent companies were consenting to nothing in this case, did not even come before us with any suggestion, as would be their undoubted right, and we upon looking over the crossing proposed should believe it improper unless protected by interlocking, could we in such a case make an order which would contemplate the taking or use of respondents' grounds, by the location on them of pipes, boxes, wires, signals and perhaps a tower house, some of the appliances extending thousands of feet upon their lands, the use of which being imperatively commanded, would materially and permanently affect the operation of their trains, and all without their consent? Certainly we would have no such power. And it does not even tend to answer the difficulty to say the order would in that case be for the benefit of respondents. Parties have some right to judge for themselves what is beneficial to their property, and those who would take that delicate function from them must show undoubted legal authority.

That this subject is one within the power of constitutional police regulation by the legislature is not questioned, but the legislature must act before the Commission can act. The case before us cannot be decided upon sentimental notions as to what the law ought to be, but must be met upon the plain issue of what the law in fact is. Nothing in the act of 1887 or 1889 empowers this Commission to compel interlocking, in the absence of the mutual agreement of the parties, nor can any such power be said with reason to be implied as being necessarily involved in the carrying out of the objects of either of those statutes. The precautions for the public safety which are put within the discretion of this Commission by the act of 1889 are such and only such as arise out of a choice of the different ways in which the crossings of railway tracks proper may be constructed, the most obvious distinction being between those which are built on a level and those which are separated, one passing over the other. The question why a larger power has not been conferred may properly be addressed to the legislature.

It is my opinion an order should be entered prescribing a crossing in the place and manner designated in the petition.

Crim, Commissioner—I concur in the conclusions reached in the foregoing opinion.

Wheeler, chairman, dissenting.

I present my views in the case under advisement with great reluctance, but, being unable to reconcile the opinion of a majority of the Commission with the facts and law in the case as I understand them, I am led to dissent from certain of their findings for the following reasons:

My interpretation of the statute under which this hearing is held gives it a broader scope, and a more extended jurisdiction, to the Commission than my associates allow, and, I may add, broader and more extended than the learned counsel for the parties to the controversy admit.

The right of the petitioning company to cross the tracks of the respondent companies at some point is conceded, and no other point being suggested, it may be assumed that the place proposed is the most feasible and the best that can be selected. Therefore, "the place where said crossing shall be made" may be considered established. Thus far the Commission seem to be of one opinion.

The vital point in the controversy, and upon which our views differ, is found in "the manner in which said crossings shall be made." What does the word "manner," as used in the statute. mean? How far does the question of "manner" extend? Must we confine it to that portion of the respondent companies "main lines" actually inclosed by the petitioning company's tracks?

The statute under which this case is brought is somewhat obscure, inasmuch as it does not specifically define the meaning of the term, and upon the conclusion reached depends the extent of the jurisdiction of the Commission. The cost of constructing the crossing is provided for in the act; aside from that, the only reservation is found in the question of "damage," which, with the extent of jurisdiction, covers the entire matter in controversy.

The enacting clause of the statute clearly indicates that the intent of its framers was "to prevent danger to life and property from grade crossings," and in its first section it is expressly stipulated that the Commission shall have "due regard to safety of life and property," and "shall prescribe the manner in which said crossing shall be made." Can there be any doubt about the intention of the law-making power? The question of safety is made paramount—the first to be considered—one that must not be lost sight of; therefore, I conclude that a reasonable construction of this clause places all matters pertaining to the question of safety within the jurisdiction of the Commission, including the side tracks, switches, turn-outs, etc., of all companies adjacent to and affected by the crossing. All of these, in my opinion, are covered by the statute, and must be subject to the restrictions contemplated by the law.

Assuming this view to be correct, do we not fail in our duty if we ignore the plain intent of the law and allow a crossing in a locality teeming with human life, without such safety appliances as will reduce the element of danger to a minimum?

But, it is argued, safety appliances concern only the operation of railroads, a question not referred to this Commission by the act, therefore it is outside of and beyond our jurisdiction. In answer, permit me to say that while I claim no right to impose conditions on or in any manner interfere with, any crossing constructed or located prior to the time the present act went into effect, i. e. July I, 1889, I am clearly of the opinion that we not only have the right, but it is our solemn duty, to require proper safeguards for public protection in all cases arising subsequent to that date, failing in which, the community will hold us responsible for any disaster that may occur.

Again, we are told that interests other than those of the parties to this case will be disturbed by the construction and operation of safety appliances, interests not submitted to us for adjudication, and any decision of this Commission affecting such interests will not be recognized as binding by the parties thereto. In reply, it may be said that, while all parties which may be directly or indirectly interested in the decision of the Commission have an undoubted right to a hearing, our authority to act in the premises is not abrogated by their failure to appear, and our duty to render a decision covering the whole question remains whether they do or do not appear.

How far the question of damages extends is, perhaps, more difficult to determine. It may not, however, be unreasonable to claim that it covers only such property as is rendered wholly or partially useless by the tracks of the petitioning company and the necessary safety appliances. In my opinion it does not include the cost of such appliances, their operation or maintenance, these being an expense, not a damage. My conclusions therefore are:

1st. The law as enacted gives the Commission full jurisdiction over all questions pertaining to crossings at grade, cost of crossing and damage excepted.

2d. The Commission has the right to name the place of crossing, and the right to prescribe the manner as well.

3d. In prescribing the manner, the Commission has the power to require such appliances as will insure a reasonable degree of safety to the public. 4th. The cost of constructing, operating and maintaining the necessary safety appliances does not fall under the question of damage.

5th. The Commission has no right to grant the request of the petitioning company without requiring such safety appliances as will render the crossing practically safe.

The following order was entered by Commission:

CHICAGO, MADISON & NORTHERN R. R. CO., )

VERSUS CHICAGO & WESTERN INDIANA R. R. CO. AND PITTSBURGH, FT. WAYNE & CHICAGO RY. CO.

In the matter of the above petition it is decided and ordered by the Commission that petitioner have leave to cross with its tracks the main lines and tracks of the respondent companies at the place and in the manner designated in its petition, and as shown upon the plat attached to said petition.

SPRINGFIELD, ILLINOIS, April 17, 1890.

# No. 3.

# PETITION FOR LEAVE TO CROSS.

### St. Louis & Eastern Railway Co., Petitioner.

vs.

Toledo, St. Louis & Kansas City Railroad Co., Respondent.

**Opinion by Phillips, Commissioner:** 

This is an application of the St. Louis & Eastern Railway Company for leave to cross with its proposed track the track of the Toledo, St. Louis & Kansas City Railroad Company at a point about three-quarters of a mile east of the station called Peters, in Madison county, Illinois. Respondent resists, alleging that a crossing at the point proposed by petitioner will "unnecessarily impede and endanger the travel and transportation" upon respondent's road.

Respondent, however, offers to allow a crossing at the point proposed, provided petitioner will at its own expense set up and maintain interlocking at such crossing; or it offers to permit petitioner to cross without interlocking at a point a little over a half mile further west than the place proposed. Petitioner declines both these offers and insists upon the crossing proposed without interlocking.

Respondent alleges in its answer "that the proposed crossing is at the foot of a working grade of from thirty-five to forty feet to the mile; that the result of such crossing will be to compel all trains upon the Toledo, St. Louis & Kansas City Railroad to stop at the foot of such grade, and thereby lose the momentum necessary to carry trains of ordinary size over such grade;" that a crossing at this point will necessitate diminishing the train load on respondent's road by several cars, thus increasing the expense of operation, as well as delaying and interfering with traffic; and that its management had already decided upon a change of grade at the proposed point of crossing, rendered necessary in the economical operation of its road, which road, it is alleged, is in the course of being reconstructed, this grade being among the last to be changed.

The evidence on which we are asked by petitioner to order this crossing is meager and unsatisfactory. Two witnesses testified for complainant, stating in terms (without objection) that a crossing at the point proposed "would not unnecessarily impede or endanger the travel and transportation upon respondent's road," and this general conclusion was, in a manner, supported by further expert theoretical testimony given by the same witnesses.

The testimony does not inform us as to the actual state of traffic on respondent's road, how many and what kind and weight of trains it runs, or any other of the many specific facts which might readily have been made the subject of observation and have been put before the Commission. Neither did any witness who had had actual experience in handling engines, or in hauling trains over grades of this kind, testify before us. We confess to some prejudice in favor of the notion that the best way to prove how the running of freight trains is affected by the grade at the point of proposed crossing, and what freight locomotives can haul there, and what speed and "momentum" must be acquired at that point to insure the ascent of the grade eastward, would be to show what is actually done by the freight trains that daily pass this point and ascend this grade. No evidence on this line was offered.

The expert testimony offered by complainant was controverted by the chief engineer of respondent, whose testimony substantially and very plausibly supports the objections to this crossing stated in the answer of respondent.

The petitioner held the burden of proof and ought to have made clear, by a preponderance of the evidence, the fact that this crossing will not unnecessarily impede and endanger respondent's traffic. This could not be done by witnesses swearing to that *conclusion* in terms as they did. The general conclusion as to the propriety of the crossing is for the Commission, not for witnesses. Actual facts should have been placed before us on which we could judge.

The railroad first upon the ground gains important rights by the fact of its presence. The use of its line ought not to be lightly interfered with. It was undoubtedly in part the object of the act of 1889, while insuring safety to persons and property transported, to protect established companies in the enjoyment of their rights. One way of arriving at the propriety of a proposed crossing would be to consider whether the line to be crossed would have been built as it is as respects grades, curves, etc., had those building it known a crossing was to be made in the place proposed. Such a test might not be decisive, but is worthy of consideration in every case.

The act of 1889 took away the arbitrary power of new roads to locate crossings at will, and its effect is to put upon them the burden of showing that the crossing will not "unnecessarily" impede and endanger the travel and transportation upon the road crossed. They should point the Commission a clear way to order the crossing desired with proper regard to existing rights and uses. This we cannot say has been done in the case before us. Giving due force to the testimony, the question remains in serious doubt.

In this case it appears from an unchallenged estimate that the increased expense of placing the crossing at the point a half mile further west, as contended for by respondent. would be only \$8,594; unless petitioner should be obliged to purchase nine acres of ground between its right of way and the creek on the south, in which case the cost would be increased to \$10,844, estimating this land at \$250 per acre, which is, it seems to the Commission, a very liberal if not extravagant allowance. Thus, we see, the change contended for by respondent does not involve a large outlay by petitioner, and we are unwilling to permanently obstruct or cripple an established line, or take a serious chance of doing so, where the expenditure of a few thousand dollars will remove all objections.

The petitioning company acquired no equities in the proposed crossing by prematurely grading its road to the point. The correspondence submitted shows the officers of respondent never, expressly or by any fair implication, consented to the crossing unless petitioner would interlock it in the manner stated in the form of contract submitted by them. This is not a case like that of the Chicago, Madison & Northern, where the right of way was acquired and eighty per cent. of the work done before this crossing law was passed. If petitioner, with the law before it, and without either an order of the Commission or the consent of respondent, chose to grade its road for a crossing, it did so on its own responsibility, and at its own peril.

Under the evidence as it stands before us, we are unable to find that a crossing in the place proposed will not, in the language of the act, "unnecessarily impede or endanger the travel or transportation upon the rail-way crossed."

#### DECISION.

It is therefore decided and ordered that the petitioner, the St. Louis & Eastern Railway Company, have leave, and it is hereby empowered, to cross with its track the main line and track of the Toledo, St. Louis & Kansas City Railroad Company at grade at a point in the N. E. quarter of the N. W. quarter of Section 4. Town 3, North Range 8. West of the 3d P. M., 2,940 feet west of the point named for said crossing in the petition filed in this case.

The point of crossing hereby established is marked by the letter "B" upon the plat submitted by petitioner and now with the files in this cause, to which plat reference is hereby made for greater certainty.

It is ordered that petitioner pay all costs and expenses of the Commission incurred under its petition.

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Springfield, Illinois, January 7, 1891.

### No. 4.

### EXTORTION AND UNJUST DISCRIMINATION.

COMPLAINT.

Joseph Taylor, of O'Fallon, Ill., Complainant,

#### vs.

The Ohio & Mississippi Ry. Co., Respondent.

#### OPINION OF COMMISSION.

Opinion by Phillips, Commissioner:

Complainant, Joseph Taylor, in 1888, opened a coal mine in St. Clair county, some twelve miles from East St. Louis, between the stations O'Fallon and Alma, and a distance of 2,800 feet north of the line of defendant's railroad. While the shaft was being sunk, Taylor applied to president Barnard, of the railway company, to put down a track from the railroad to his coal shaft, which the president declined to do. The negotiations were partly oral and partly by correspondence.

On July 11, President Barnard wrote Taylor:

"How do you propose to get the coal, provided the track is laid from your mine, to the tracks on the company's right of way? Have you counted upon the company being willing to make the delay and the extra run without charge, or do you propose to haul it by mules or horses, or otherwise." Also, "With satisfactory assurance that a much increased business can be secured at such rates as we can get, or are willing to make, on coal, I shall be able to determine to what extent we can afford to put money into side tracks to so aid the development of your property."

On August 13, President Barnard again wrote Taylor:

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"I have to advise you that this company will only undertake to put down such tracks as may be on its right of way. If you wish to reach your shaft, therefore, you had better make arrangements to procure rails, spikes, ties, etc., for the laying of the tracks yourself. Another thing to be considered will be the getting of cars to and from the mine, as we cannot afford, with the low rates that we get from Alma to St. Louis, to stop trains on the main line and run engines a half a mile from it to get loads and place empties." And on November 13, Taylor wrote Barnard:

"In regard to grading, etc., and side tracks at my mine would say that the grading, etc., is about completed, and that I have several teams at work in order to have all in readiness. Wish you would rush the matter and have the material on hand at the time. Hope you will use every effort to have the rails, etc., on the ground without delay, as I am really anxious to have it done as soon as possible, as will soon be to the coal."

To this Barnard replied November 14, "I have your letter of the 13th, inst., but cannot understand what you mean. I told you when you were here I would have Mr. Stevens endeavor to find out what you could get rails for and let you know. I told you also where I thought you could buy. This company has not undertaken to procure material for your track, and not only that, I advised you about where you could get them yourself, and I think Mr. Stevens may have told you (I am not sure of this), where you could buy and at what price. I told you we would only lay the track necessary for the connection so much as run on the O. & M. right of way. You cannot have misunderstood this."

Taylor subsequently at his own expense built his track, with some advice and help from the company's engineer. The track thus built extends from the company's main track and at substantially a right angle therewith, a distance of 2,800 feet to the mine.

There was other correspondence and negotiations, but the above suffices to show the circumstance under which Mr. Taylor's track was built, and the connection made with the defendant's road.

About three miles east of Taylor's mine, and further from East St. Louis, are the Consumers' and Crowson's mines, both of which are situated practically upon the right of way of defendant, the switches and tracks leading to them being almost, if not entirely, upon the company's right of way. The principal point of the complaint is that defendant company charges from the Consumers' and Crowson's mines 45cts. per ton freight for shipment of coal to East St. Louis, while from Taylor's mine it charges the same price, 45cts. per ton. and in addition thereto, one dollar per car as a switching charge for the service of placing empties and carrying loads from Taylor's mine to the main track, 2,800 feet. No switching charge is made in the case of shipments from the Consumers' and Crowson's mines. The facts are not disputed. The company concedes having made these switching charges on all of Taylor's shipments, and avows its purpose to continue them.

Complainant claims this extra dollar per car constitutes both an extortion and an unjust discrimination under the statute of this State; and the Commission is asked to prosecute the defendant for the penalties denounced by the statute against these offenses.

So far as extortion is concerned, the case is not difficult. If the company may rightly make a switching charge for the transportation of cars over Taylor's road, then the amount of one dollar per car, being within the maximum switching charge fixed by the Commission, can not be said to be extortionate. The real question is whether the company may rightfully charge at all for this service. If it may not, that is to say, if for the present purpose the track laid by Taylor is to be regarded as part of defendant's road, and his mine is to be regarded as a station on that road, as contended, then the charge as to discrimination would seem to be made out.

We have examined the numerous Illinois decisions cited by complainant's counsel. Most of these arose under section 5, article 13, of the constitution, which provides:

"All railroad companies receiving and transporting grain in bulk or otherwise, shall deliver the same to any consignee thereof, or any elevator or public warehouse to which it may be consigned, providing such consignee, or the elevator or public warehouse can be reached by any track owned, leased or used, or which can be used by such railroad companies; and all railroad companies *shall permit connections to be made* with their tracks, so that any such consignee and any public warehouse, coal bank or coal yard may be reached by the cars on said railroad."

Under the above provision, the Supreme Court holds (in language no more plain, it may be observed, than the constitution itself,) that railroads are bound to deliver cars of grain at the particular warehouse or elevator to which they are consigned, if accessible by any track belonging to the company or which the company has the right to use.

> Vincent vs. C. & A. R. R., 49 Ill. 33. People vs. C. & A. R. R., 55 Ill. 95. C. & N. W. Ry. Co. vs. People, 56 Ill. 365. Hour vs. C., B. & Q. 93 Ill. 601.

And in such a case no extra switching charge for delivering cars of grain at an elevator reached by such track, can be made.

#### Vincent vs. C. & A. R. R. Co., 49 Ill. 33.

But the company would not be bound to procure for that purpose from another company, or person, the right to use a track required for such delivery.

#### People vs. C. & A. R. R. Co., 55 Ill. 95.

And, it seems, where the delivery would occasion great inconvenience to the company, it would be excused from such delivery, even though having a right to use the necessary tracks.

#### C. & N. W. Ry. Co. vs. People, 56 Ill. 365.

All these cases hold that any switch or track extending from a company's main track to any such elevator, whether such track is owned or leased by such company or not, if put there for the accommodation of the elevator, by some arrangement under which the road can use it, is to be regarded as a part of the company's line *for the purpose of the delivery of* grain.

The foregoing cases, however, relate solely to the delivery of cars of grain, which is expressly enjoined by the constitution.

With regard to coal mines, the constitutional provision quoted above is, simply, that the company *"shall permit* connection to be made with their tracks," which it will be seen is essentially different in its terms from the provision in regard to grain deliveries.

In a late case it was held that a railroad company could not disconnect a switch which had been laid to a coal mine and which had for several years been used for making shipments of coal therefrom.

#### C. & A. R. R. Co. v. Suffern, 129 Ill. 274.

Commenting on the above constitutional provision in its relation to coal mine connections, the court says, in the Suffern case:

"It was the evident design of the constitutional provision above quoted to compel the railroads to furnish the coal mines in the State with all necessary facilities for the shipment and transportation of coal. As the railroad companies must deliver grain to all elevators upon the lines of their road, or connected therewith by side tracks, so also must they receive shipments of coal from all coal mines on the lines of their roads or connected therewith by side tracks."

The Suffern case was a petition for mandamus, and, as bearing upon the present inquiry, that case enlightens us no further than to show that Taylor has the undoubted right, under the foregoing clause of the con-

stitution, to have his track and mine connected with defendant's road. The constitution commands defendant to "permit connection to be made" with Taylor's coal mine. This it has done. The constitution did not command defendant to build a track, extending 2,800 feet off from its own right of way, to reach this mine; and this it refused to do.

The connection has been made; and no question arises here, as in the *Suffern case*, as to any right of the company to sever such connection. It is not proposing to sever it. Nor does any question arise here as to the right of defendant to refuse to receive and transport coal from 'Taylor's mine. It has not so refused. What the company does refuse to do is to take empty cars from the track to the mine, and loaded cars from the mine to the track, 2,800 feet, unless it is paid for that service extra, over and above the regular freight rate which obtains from the point of connection.

Undoubtedly, if Taylor would arrange to deliver his coal at the right of way he would avoid this charge, and would then have the right to have his coal transported at the regular rate of freight, and no more. The real question is, has he a right, under the above quoted provision of the constitution, to compel defendant to operate his 2,800 feet of railroad without compensation? It seems to the Commission he has not that right. If he may compel defendant to operate his 2,800 feet of road gratis, may not some one else compel it to operate a road a mile, two miles, or five miles in length, gratis? Where will the line be drawn?

Does the declaration of the court in the Suffern case, that this constitutional injunction was intended "to compel the railroads to furnish the coal mines in the State with all necessary facilities for the shipment and transportation of coal" mean that the railroads are compelled to furnish those facilities gratuitously, long distances beyond their own switches and tracks, wherever the mine owner may build a track and tender it? Does the further declaration of the Court in that case, that railroad companies "must receive shipments of coal from all coal mines on the lines of their roads or connected therewith by side tracks" mean that such companies must receive such shipments at some distant point upon a track built by others, or does it mean only that the roads shall receive such shipments at their own respective rights of way on switches or in yards established for the purpose?

We think such a construction as is contended for would extend the constitution far beyond the cases meant to be provided for by its framers.

We can well understand how a company might, by its own acts. or by contract, bind itself to perform such a service gratuitously. We can understand how, in many cases, railroad companies, for the sake of developing the coal fields along their rights of way, thereby enhancing their own trade and earnings, might enter into arrangements with coal operators, whereby they would be estopped to make switching charges, even in cases where the extra service might be larger than is here demanded of defendant. Doubtless some of the cases related in the testimony offered by complainant, as to the practice upon other roads in this same coal field, are of this character. But the fact, if it exists, that other roads have made such arrangements, furnishes no ground upon which to predicate a rule of law which will bind defendant. It may be, if it were shown that this same company was accustomed to perform a like service for other mine owners on its line, and competing in this field, without charging for it, that fact would furnish a basis for a prosecution for discrimination. But the other mines, whose shipments have been compared with complainant's for the purpose of making out the discrimination, are located immediately upon defendant's right of way. It performs no switching service for those companies, so far as the evidence discloses.

In the case of complainant, it cannot with justice be claimed in the light of the evidence, as was claimed by the petition, that defendant either promised complainant, or by its acts induced him to believe that it would operate his track without charge. He was plainly told by letter, as he admits, and in conversation as President Barnard testifies, that he must pay for this service, and that too before his track was laid, or any considerable work had been done upon his mine.

While we realize fully the disadvantage under which complainant labors in the present state of competition felt in the coal trade, we are not convinced that the law affords any remedy, and greatly fear that a prosecution for either extortion or discrimination would fail.

The petition will therefore be dismissed.

SPRINGFIELD, ILLINOIS, September 20, 1890.

# No. 5.

### EXTORTION.

#### COMPLAINT.

#### P. Wonderly & Co., Complainants.

#### vs.

#### The Wabash Railroad Co., Respondent.

#### OPINION OF COMMISSION.

#### Opinion by Wheeler, Chairman:

Complainants charge the Wabash Railroad Company with a violation of the Commissioners' rules governing switching charges, claiming the revenue collected to be excessive, and ask the Commission to compel the railroad company to refund the overcharge.

This cannot be effected without a suit at law and before this step is taken we must consider this question: Can the charge be proven? On the evidence furnished we think not. If complainants will carefully consider the rule referred to we think they will conclude with us that the business does not fall under the rule. "Switching," as defined by the rule "includes the hauling of loaded cars from the station yards * * * *

to the junction of other railroads when not billed from stations on its own road to said junction, and from junctions of other railroads to the stations, side tracks, * * * * situated on the tracks owned or controlled by the railroad company doing said switching. In other words, switching is that transfer charge ordinarily made for moving loaded cars for short distances for which no regular way bill is made, * * * *."

In the case under advisement it does not appear that the business done is of the character covered by the rule; on the contrary the expense bills before us are in the form of regular billing from station to station with revenue charges based on the maximum rates prescribed by our predecessors and still in force. Possibly these rates are excessive, but, till reduced by the proper authority they must be accepted as legal, unless discrimination is shown, which thus far is not claimed.

After a careful consideration of the facts confronting us the Commission is of the opinion that a charge of extortion cannot be sustained, and being hopeless of securing an affirmative verdict we do not deem it expedient to commence a suit with almost the certainty of being thrown out of court. If complainants can furnish evidence that will insure success, the Commission will gladly bring suit: but as the case now stands we think their good judgment will endorse our position as above indicated.

The complaint will therefore be stricken from the docket.

Springfied, Illinois, Oct. 24, 1890.

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# No. 6.

### REFUSAL TO SWITCH CARS.

COMPLAINT.

Union Brewing Company, of Peoria, Complainant,

vs.

The Chicago, Burlington & Quincy R. R. Co., Respondent.

OPINION OF COMMISSION.

**Opinion by Phillips, Commissioner:** 

This is a complaint by the Union Brewing Co., a corporation of Peoria, Ill., against the C., B. & Q. R. R. Co., alleging a refusal to switch cars.

Switching has been defined by the Commission to be, "the hauling of loaded cars from station yards, side tracks, elevators or warehouses to the junctions of other railroads when not billed from stations on its own road to said junctions, and from junctions of other railroads to the stations, side tracks, elevators and warehouses situated on the tracks owned or controlled by the railroad company doing said switching. In other words, switching is that transfer charge ordinarily made for moving loaded cars for short distances for which no regular way bill is made, and which do not move between two regularly established stations on the same road."

A particular car loaded with "cerealine", and billed to complainant, was transported to Peoria by the C., C., C. & St. L. Ry. Co., and was either by the carrying company, or an intervening company delivered to respondent, and marked for "Carson's track." Carson's track is a team track of respondent, one block from complainant's brewery, on which complainant was accustomed to receive its cars of freight. Respondent after receiving this car in fact switched it to Carson's track, not knowing it was for the complainant; but, upon learning whose car it was, the agent of respondent ordered it taken away; and it was then placed upon a team track of the P. & P. U. road, in a place considerably further from the brewery, and much less convenient for complainant, where it was finally unloaded.

Respondent declined to switch this car to Carson's track (or rather to leave it there after inadvertently switching it), and declines generally to switch any cars for complainant, because of a controversy arising between them as to the payment of certain car-service charges, levied through the Car Service Association of Peoria, for the detention of two cars which had

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been previously switched by respondent to Carson's track for complainant; which two cars last mentioned had not been unloaded by complainant within forty-eight hours after arrival, which is the time allowed free of charge by the rules of the Car Service Association.

The Car Service Association is composed of the several roads doing business in Peoria. Its object is to prevent the unreasonable detention of cars by consignees; and under its rules a charge of one dollar per day is made against any consignee for each day he fails to unload a car, after the expiration of forty-eight hours from the time such car is set by the railroad company in a proper place for unloading.

In the case of the two cars upon which the unpaid car-service charges were made, the brewing company chims that the railroad company was at fault in failing to give notice of arrival. It also claims that the charge of one dollar per day is unreasonable in amount. The respondent, upon the other hand, claims it was not its duty to give complainant notice of the arrival of these cars, that being the duty of the company transporting them to Peoria, a duty which in this case respondent further insists was in fact performed by the C., C., C. & St. L. Ry. Co. Respondent further claims that the two cars named were placed in plain view of the brewery and only a block away, and that complainant in fact knew the cars were there in time to have unloaded them within the forty-eight hours, if its agents had seen fit; and it urges further that these car-service charges of one dollar per day for detaining cars are proper and reasonable, and that they are in the true interest of shippers, since they prevent the rolling stock of railroads from being tied up to the great disadvantage of those shippers who, for that reason, often cannot get cars.

We thus state the controversy as to these car-service charges, not for the purpose of deciding it, but rather as a help to arrive at what we deem the real question before us. We content ourselves with the single observation that since the statute of this State (Sec. 5, Act "Receiving, Carrying and Delivering Grain,") provides that a consignee of grain transported in bulk "shall have twenty-four hours, free of expense, after actual notice of arrival, etc., in which to remove the same from the cars of such railroad corporation," there would seem to be an implied right under the statute to charge for a longer detention than the twenty-four hours which the statute names. Indeed, no reason is perceived in law or justice why an unreasonable and unnecessary detention of cars by consignees should not be paid for: and the Car Service Association seems from the proof before us to be only an agency established to keep account of claims so aris-ing, and enforce them. The charges so made would have to be reasonable, under all the circumstances. The statute does not seem to refer the matter of fixing the maximum of such demurrage charges to this Commission; and the question probably did not occur to the law makers. Car demurrage is an important subject, which has arisen, in a practical way, only within late years, and long after our statute for the regulation of railroads was passed. It does not, however, follow that, because there is no statutory regulation of the question, there is no law. The charge, as before observed, must be reasonable; and what is reasonable in a given case must depend upon the facts of that case, and be arrived at, if the parties cannot themselves agree, by a judicial determination, in a court competent to try the question. Whether or not the seven dollar car-service or demurrage charge made for the detention of the two cars in question is reasonable, under all the circumstances, can only be determined author-itatively and judicially, when the parties carry the case into court. Not being a court for any such purpose, this Commission cannot determine it.

We do not even assume to decide that "cerealine" is "grain" within the meaning of the statute above cited. The nature of the article has not been very fully explained. It is a product of corn, the hull and germ being removed, and is used as a part substitute for malt. We have assumed it to be "grain" in the observations above made.

Respondent does not deny the refusal to switch cars, but expressly avows it; and the important question is, has the railroad company shown a state of facts which will excuse it from switching cars for complainant to Carson's track. In justification of its refusal the railroad company alleges two grounds, which may be stated in the language of its own answer, as follows:

1. "This company further states, that it does not do or hold itself open to do, a general switching business in the city of Peoria, but states that the service heretofore rendered to the said Union Brewing Co., in so switching these cars, was done for the accommodation of said Union Brewing Co., and are not such services as this company is compelled by law to perform."

2. "This company further denies that the railroad companies, centering in Peoria, and forming such association, have violated any law of the State of Illinois; and it asserts that the rules and regulations of said association are reasonable and lawful, and for the public good, and necessary for the protection of said railroad companies; and it further asserts that the charges herein complained of are just, reasonable and lawful, * * * and that in refusing to switch the cars of the said Union Brewing Co., shipped over foreign lines, until said just and reasonable charges, heretofore exacted, are paid, it has acted in accordance with the law."

The first ground stated seems to imply, that unless a railroad company holds itself out to do "a general switching business," it is under no legal obligation to switch cars. On this we observe that if respondent were confining itself strictly to handling only such cars at Peoria as it transports thither upon its own line, and if "Carson's track" were a track used by it exclusively for the accommodation of its patrons who ship cars to Peoria over its own line, the case would stand on a basis entirely different from that presented by the evidence. Then the question would be presented whether or not the switching of cars from one point to another within the same city, for which no way bill is made, is a service by law demandable from a railway company which does not ordinarily do a switching business.

If this were in fact the case before us, we should hesitate before holding that a switching service can in no case be legally demanded of a railroad company, unless such company does a general switching business. The principle upon which a distinction would be made, between the obligation to haul one mile, and the obligation to haul ten, is very difficult to perceive; and the interests of a patron might become as vitally involved in the one service as in the other. If one wishes a switching service only, and is willing to pay for it, why can he not command the service?

It is, however, unnecessary here to decide any such question. The evidence amply shows that respondent is accustomed to switch cars at Peoria in case of shipments not originating on its own line. It has numerous patrons for whom it switches cars, turned over by other roads, and switches them, too, to the particular track known as "Carson's track." Receipted bills of respondent issued from its "Switching Department," showing the switching of seventy-one such cars at one dollar each, switching charge, have been filed by complainant in this case. Moreover, the company did in fact switch the car in question, supposing it to be the car of another patron, but removed it upon learning it was for complainant. The fact that respondent does switching in the city of Peoria is really not denied. What is denied is that it does "a general switching business."

The question, therefore, is not whether a road which does no switching can by law be made to switch cars, but whether a road may switch for some, and refuse to switch for others: whether it may accommodate some patrons upon a convenient track and arbitrarily exclude others from the same privilege, making them go for their goods to another track less convenient.

We believe the position of respondent upon this question is wholly untenable. The principle of law is fundamental that railroads must treat all alike. They must accommodate all that apply in the order of their applications, extending favors to none, and excluding none from equal participation in the use of their facilities. They perform a public calling, to be exercised impartially for every member of the public they were created to serve.

These principles have been so often and so universally held by all courts of the common law that we deem a citation of authorities unnecessary.. Indeed, nothing could be more dangerous in practice than to allow the railroads which wield such powerful instrumentalities, on the use of which the welfare of every citizen more or less depends, to choose for themselves whom they will serve. Armed with such a power, the railroads of the land could build up or destroy at will both private fortunes and communities.

We, therefore, are of opinion that since respondent switches cars at Peoria for some of its patrons, it is under a legal obligation to switch impartially for all who apply, and who tender its reasonable charges. We hold, when respondent switched cars for complainant to Carson's track, it performed, not a mere "accommodation," but a legal duty.

The second ground alleged for refusal to perform this switching service remains to be considered: namely, the refusal of complainant to pay the charges for detention of the two former cars. As before remarked, we cannot decide this controversy. We are of opinion, however, that whether this particular charge be legally collectible or not, its non-payment cannot justify a refusal to switch cars for complainant. When complainant demands of the Burlington company a service such as it performs in Peoria for others, tendering its legal functions because of an unsettled controverted account, arising out of a wholly different transaction. If complainant owes it for unreasonably detaining cars, the courts are open to it. The account must there be ultimately settled. The railroad company cannot, in our view, determine this question for itself, or hold its switching facilities in the city of Peoria as a mere "accommodation" by the optional use of which it can compel payment of a past disputed claim. This unsettled claim, it will be observed, is not for a switching service, but for another thing—the detention of cars. It could not be known in advance that further car-service charges would accrue upon the cars respondent has been refusing to handle for complainant.

We are of opinion that respondent is not released from the legal duty of switching, by the failure of complainant to pay demurrage charges.

The only question now remaining concerns the remedy. The act creating this Commission provides :

"Said Commissioners shall examine into the condition and management, and all other matters concerning the business of railroads and warehouses in this state, so far as the same pertain to the relation of such roads and warehouses to the public, and to the accommodation and security of persons doing business therewith.

And whenever it shall come to their knowledge either upon complaint or otherwise, or they shall have reason to believe that any such law or laws have been, or are being violated, they shall prosecute, or cause to be prosecuted, all corporations or persons guilty of such violation."

In section 17 of the same act it is provided:

"It shall be the duty of the Attorney General and the State's attorney in every circuit or county, on the request of said Commissioners, to institute and prosecute any and all suits and proceedings which they, or either of them, shall be directed by said Commissioners to institute and prosecute for a violation of this act, or any law of this state concerning railroad companies or warehouses," etc.

Section 18 further provides as follows:

"All such prosecutions shall be in the name of the People of the State of Illinois, and all monies arising therefrom shall be paid into the State Treasury by the sheriff or other officer collecting the same," etc. The act upon "extortion and unjust discrimination" further provides that the Commission shall enforce that act and "cause suits to be commenced and prosecuted against any railroad corporation which may violate the provisions of this act." It further provides in what counties of the State prosecutions may be begun, authorizes the Commission to employ counsel "to assist the Attorney General," if they think it necessary, and says that no such suit shall be dismissed unless the Commission and the Attorney General both consent thereto.

From the above provisions it seems evident that the "prosecutions" which it is incumbent upon this Commission to institute and conduct are prosecutions for those penalties denounced by the statute against railroad companies for violation of the several provisions of the railroad and warehouse law. It was evidently not intended that the Commission should carry on any man's private suit at public expense. A writ of *mandamus* to compel the switching of cars for complainant, while running in the name of the people, would, in fact, be the private suit of complainant. It would not be a "prosecution" in the sense that term is used in the statute. The statute fixes no fine or penalty for refusal to switch cars. The party damaged by such refusal could no doubt recover his damages: but this, too, would be his private action and not a public prosecution. The courts are open to complainant to prosecutions in the name of the people for penalties or the prosecution of such suits as affect the public generally, or large communities of people, is also pointed to by the fact that the act concerning unjust discrimination expressly provides for a private suit by the person discriminated against wherein he may recover treble damages and his attorney's fees.

Inasmuch as the parties had placed this case before us at some length, we have not hesitated, under the injunction of the statute that we shall "examine into the condition and management, and all other matters concerning the business of railroads and warehouses in this State," etc., to thus express our views of the law for the guidance of those who may be affected by them, or may have confidence to follow them; and we hope the matter may be now adjusted between the parties without resort to a judicial determination of the question, which, not being a court in the proper sense, we are not authorized to make.

Springfield, Illinois. Dec. 10, 1890.

### No. 7.

### REFUSAL TO SWITCH CARS.

#### COMPLAINT.

#### Lyon & Scott, Complainants,

vs.

Peoria & Pekin Union Ry. Co. and the Illinois Car Service Association of Peoria, Respondents.

#### OPINION OF COMMISSION.

**Opinion by Phillips, Commissioner:** 

This complaint raises practically the same questions which are discussed in the opinion of the Commission in the complaint of the Union Brewing Co. v. The C., B. & Q. R. R. Co., and we need do little more than refer the parties to the ruling in that case. No evidence has been heard but the conceded facts show that an unpaid car-service charge, concerning the justice of which there is a controversy, has been the principal cause of the refnsal to switch cars. One matter is rather indirectly stated in the answer of the P. & P. U. Ry. Co., which might, if proved, take the case out of the principle. It is said the team track opposite blocks 6 and 7, where Lyon & Scott demand to have their coal cars placed, is a "merchandise track," and that Lyon & Scott insist upon having their coal cars placed upon this merchandise track for unloading. It is not precisely averred that this track is held by the company exclusively for merchandise. We can understand how, under some circumstances, it might be highly proper for a company to establish one track for coal and another for merchandise, and if the coal track were suitable and proper for that commodity a coal merchant could not demand to have his coal cars put upon a track properly set apart for a different business. But the principle stated in the Union Brewing Co.'s case, that the railroad company must treat all alike would here apply with its entire force. Special favors could not be arbi-trarily extended. If a suitable and proper track for coal cars is offered complainants where other coal merchants are accommodated and the company is ready and willing to switch the cars there, then the refnsal to pay the car-service charges would make no figure in the case. Respondent has in that case simply done its duty and is not in default.

The P. & P. U. states in its answer that the delay in transporting the cars of coal which Lyon & Scott sets up as a reason for refusing to pay the car-service charges (alleging that two or three days' business was by the

fault of the carrier thrown upon them at once) was not the fault of the P. & P. U. company, which only switched the cars, but was, if anybody's, the fault of the carrying company. If this can be established then it will show Lyon & Scott must look for their damages for delaying their cars to the company at fault, and that they cannot set it off against a car-service charge of the P. & P. U. company otherwise just and proper. But all this is matter for proof in a court of justice. As observed in the Union Brewing Co.'s case, we cannot settle a controversy of this kind. The parties must have their rights adjudicated if they cannot agree between themselves.

Here, as in the case of the Union Brewing Company, the remedy, if one exists, must be sought by complainants in their own private suit in mandamus, or by a proceeding in chancery for a mandatory injunction.

SPRINGFIELD, ILLINOIS, Dec. 10, 1890.

### No. 8.

### UNJUST DISCRIMINATION.

#### COMPLAINT.

### J. H. Linneman & Co., Complainants.

vs.

### The Illinois Central R. R. Co., Respondent.

#### OPINION OF COMMISSION.

#### **Opinion by Phillips, Commissioner:**

J. H. Linneman & Co., a firm doing business at Flanagan, Livingston county, Ill., complain that the Illinois Central R. R. Co., has discriminated against them in freight charges from Chicago, in that said railroad company has, it is claimed, charged complainants more for the same class and quantity of freight from Chicago to Flanagan, than was at the same time charged for the like freight from Chicago to Minonk, Minonk being the greater distance by about 13 miles, and the Minonk shipments passing through Flanagan on the same line of road.

Minonk is a competing point, being reached from Chicago by a line of the Santa Fe road, and by two lines of the Illinois Central. One Illinois Central line reaches Chicago from Minonk by way of Mendota, running in connection with the C., B. & Q.; while the other goes by way of Kankakee and is owned continuously to Chicago by the Illinois Central Company. The Kankakee line is the one on which the town of Flanagan is situated, between Chicago and Minonk.

The Santa Fe line which passes through Minonk, reaches in its farther southward progress Pekin and Peoria, where there is water competition, and it is insisted by respondent that such water competition has resulted in compelling the Santa Fe Company to fix a rate at Minonk which is unreasonably low, the Santa Fe being unable, under the law, to make a higher rate at Minonk than its through rate. Respondent, however, shows that while its rate to Flanagan from Chicago is in fact slightly higher than to Minonk, it has not been the intention to ship any of the Minonk goods by the Kankakee line and through Flanagan; that if any such shipments were so sent, it was done inadvertently and against orders; and respondent wholly disclaims any purpose to violate the law by hauling, for less freight, a longer distance, in the same direction, over the same line. While the proof is not specific or clear, we think it probable, that some of these shipments to Minonk were hauled through Flanagan; and this, if proved, would be a violation of the Illinois statute prohibiting unjust discrimination. Competition at a point is by our statute expressly excluded from the class of facts which our courts have said might be alleged to show a discrimination to be not "unjust." If there is competition at the end of the line, our statute gives all intermediate stations the benefit of it. In this our statute directly differs from the Inter-State Commerce act, which empowers the National Commission to allow a less charge for a greater distance where there is competition, if they deem it just and proper. This Commission is without any such power. To haul a like quantity of freight to Minonk from Chicago for a less rate than to Flanagan, a less distance, over the same line of road in the same direction, is a violation of our statute.

We do not, however, think the public good requires that respondent be prosecuted for the penalty denounced by the statute. As we before said, the proof already produced is not clear, and better and more conclusive proof would need to be found before instituting suit. The statute being penal would be strictly construed. The exact case stated in the statute would have to be proved in order to recover the penalty. We are not satisfied from the proof produced that a prosecution would succeed under the construction given this act by our courts.

#### C., B. & Q. vs. People, 77 111., 443.

#### Kankakee Coal Co. vs. Illinois Central R. R. Co., 17 App. 614.

But even if specific proof were forthcoming, in view of the showing made that respondent's general freight agent had given orders to ship to Minonk only by the Mendota line, and in view of the further fact that respondent gives the Commission positive assurance that care will be taken to observe the statute in future, it is decided to institute no suit for the penalty, unless there shall be future violations.

Complainants have filed with us a bill of many items for overcharges of freights by respondent, presumably with a view to our assisting in the collection of this private bill. This we cannot do. Our function is to prosecute for fines and penalties where we believe the public welfare demands it. The courts are open to complainants for the collection of such overcharges as they can prove. The statute concerning "Extortion and Unjust Discrimination" expressly provides, (Sec. 6), that any private individual who may be damaged through a violation of the statute, as to discrimination, may recover, in a civil suit, three times the amount of all his damages, together with his reasonable counsel fees to be taxed as costs. The remedy of complainants is thus made very ample for their private injury, if they are able to show one; and this Commission is not the proper forum for that part of this complaint which embraces this private claim for damages.

SPRINGFIELD, ILLINOIS, Dec. 11, 1890.

### No 9.

### RULING REGARDING PETITIONS FOR REHEARING IN CROSSING CASES.

In order to settle a matter of practice applicable to cases arising under the act of 1889, in regard to crossings, the following ruling is made:

The Commission are of the opinion the practice of entertaining petitions for rehearing in cases arising under said act results in delay without a corresponding advantage. It will be the purpose of the Commission to very fully hear the views of the parties in the first instance in all such cases, to the end that no hasty or ill-considered action may be taken. But in no case hereafter will any petition for rehearing in such cases be entertained unless the right to file such petition shall be expressly reserved to the parties in the decision of the Commission rendered in the case.

Adopted, July 10, 1890.

### No. 10.

# RULINGS COVERING THE INSPECTION OF GRAIN, GRAIN CONVEYORS AND SPOUTING CONNECTIONS.

#### RULE IN REGARD TO THE INSPECTION OF GRAIN.

All grain in store in any warehouse of class "A" at the time any amendment to the established rules of inspection (affecting such grain) may hereafter go into effect, shall be inspected out, in satisfaction of warehouse receipts dated prior to that time only, in accordance with the rules as they stood prior to such amendment.

Adopted May 21, 1890.

#### GRAIN CONVEYORS.

*Resolved*, That in the judgment of this Commission any spouting, conveyor or other mechanical connections between any warehouse of class "A" and any other warehouse, whereby grain may be transferred from one to the other, is a violation of the statute regulating warehouses.

*Resolved*, That the Chief Grain Inspector be directed to fix a reasonable time, not to exceed thirty days from August 21, 1890, within which all such connections which may now exist shall be removed, and after the time so to be designated shall have elapsed, no grain shall be inspected by this department except the same be contained in cars, canal boats, vessels, wagons or sacks, as provided in the rules established by this Commission, or in process of transfer to the same from warehouses of class "A."

Adopted August 21, 1890.

In the matter of the application of A. E. Neely for modification of former order of Commission in regard to spouting connections and conveyors between warehouses, it is

ORDERED—That the rule adopted August 21, 1890, be and the same is hereby so modified, as to apply only to such spoutings, conveyors or other connections as may be used to convey or transfer grain from any other warehouse *into* a warehouse of class "A."

Adopted December 11, 1890.

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#### No. 11.

### INTERLOCKING, SIGNALING AND DERAILING DEVICES.

The plan and construction of interlocking, signaling and derailing devices to be used at grade crossings of intersecting lines of railroads in Illinois, must be arranged to conform to the following

#### GENERAL RULES:

1. The normal position of all signals must indicate danger,—derail points open—and the interlocking so arranged that it will be impossible for operator to give conflicting signals.

2. On level track, when practicable, the derail points in high-speed tracks must be placed three hundred (300) feet from fouling point at intersection of crossing tracks.

3. On descending grades, the derail points on high-speed tracks when practicable, must be so located as to give the measure of safety equal to three hundred (300) feet on level track.

4. The minimum distance for derail points on high-speed tracks is three hundred (300) feet from fouling point at crossing, and no less distance from crossing will be approved, on account of ascending grade toward crossing.

5. On switching, storage and slow-speed tracks, the position of derail points may be located to best accommodate the traffic, and provide the same measure of safety indicated in foregoing rules.

6. On single track railroads, derail points, when practicable, should be on inside of curve, and when double track is used, the derail points should be in outside rail of both tracks.

7. Home signal posts must be fifty (50) feet beyond point of derail. Distance between home and distance signal must not be less than twelve hundred (1200) feet. Signal post should be placed on engineman's side of track it governs.

8. In case but one derail is furnished in double track crossing, where the current of traffic is in one direction, detector bars must be provided on opposite side of crossing from derails, and worked on same lever as derail, or interlocked with it, so that opposing signal cannot be given until crossing is cleared. In case trains back over crossing, after having passed over it, or if current of traffic is changed, then and in that case back-up derails must be provided.

9. Guard rail should be laid on inside of rail opposite derail, and commence at least six (6) feet toward home signal from point of derail, extending from thence toward crossing, parallel with and nine inches distant from traffic rail, total length two hundred (200) feet, unless otherwise ordered. 10. In case there are cross-overs, turn-outs, or other connecting tracks involved in the general system, the movements of cars and trains upon which present an element of danger, which danger will be enhanced by the passage of trains on main tracks over crossings without stopping, and consequently at higher speed than would be the case without the permit sought, then, and in all such cases, whether such enhanced danger be of collision between different cars or trains of the same road, or between cars or trains of different roads, it will be necessary, in addition to the protection of the main crossing, to provide by the proper devices and appliances against any such increased collateral dangers in the same complete manner that is required in the case of the main crossing.

11. Application for inspection of interlocking plant must be accompanied by plain diagram, showing location of crossing and position of all main tracks, sidings, switches, turnouts, etc. The several tracks must be indicated by letters or figures, and reference made to each, explaining the manner of its use. The rate of grade on each main track must be shown, together with numbers of signals, derails, locks, etc., corresponding to levers in tower.

It is intended in this circular to state general rules, which will govern the construction of any proposed system of interlocking. The business to be handled, relative position and operation of intersecting lines, may require safeguards not mentioned herein.

The system of derailing, signaling and interlocking must be connected and worked, and be complete in each particular before it will be approved.

## No. 12.

### INTERLOCKING, SIGNALING AND DERAILING DEVICES.

#### FORM OF PERMIT.

#### STATE OF ILLINOIS, OFFICE OF THE RAILROAD AND WAREHOUSE COMMISSION, SPRINGFIELD.

#### To all whom it may concern:

Now, THEREFORE, it is hereby ordered, that the said interlocking device be, and the same is hereby approved, in manner and form as the same is described in said report, and shown upon the plans, diagrams and drawings thereof. now on file in the office of said Commission; and these presents shall authorize the above mentioned railroad companies, and each of them, to run said crossing without stopping, until the further order of this Commission; subject, however, to the following conditions, to wit:

*First*—Said companies shall cause said device to be frequently inspected, and shall keep the same in first class working order, and in good repair, and shall provide for its efficient operation by a competent person or persons, so long as it shall be in use under this permit.

Second—Each engine and train shall be brought under control after passing distance signal, and shall proceed under control over said crossing. "Control," as here used, means speed of train must be governed by brake power at command, and in no case exceed the power of trainmen to readily stop train within safe distance should danger appear between distance signal and crossing, or at crossing.

Third—No change shall be made in the location of said device or any of its parts, nor in the mechanical construction thereof, nor in the manner of operating the same, without the approval of the Commission; and, in case of any such change without such approval having first been obtained, the anthority hereby conferred shall at once cease.

Attest:

Chairman R. R. and W. H. Com.

ADOPTED August 21, 1890.

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