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JULY 17, 1907

Freight Costs and Market Values.

By FRANK ANDREWS, Scientific Assistant in Transportation, Division of Foreign Markets, Bureau of Statistics.

FREIGHT COSTS AND MARKET VALUES OF COTTON AND WHEAT.

It is well known that goods whose value is high in less valuable than for a more valuable commodity three primary markets during the year 1905-6, the canals between the same points. The influence of value average rate on wheat from local shipping points to The in hauling their products from farms to shipping primary market. points.

An investigation was made by the writer, under the authority of the Bureau of Statistics of the Department of Agriculture, in September, 1906, to learn certain facts about hauling farm products on country roads, and from results of this inquiry it is estimated that it costs an average of 16 cents per 100 pounds to haul cotton from farms to shipping points, while the cost for wheat is 9 cents. The average distance of cotton farms from local shipping points is II.8 miles, the average weight of a wagon load of cotton is 1,702 pounds, and the average cost of hauling the load, \$2.76; the corresponding averages for wheat are 9.4 miles, 3,323 pounds, and \$2.86. It is plain that cotton may be profitably hauled for greater distances and in smaller loads than wheat, since the value of an average load of the cotton picked in 1905 was more than \$170, while a load of wheat was worth about \$40.

CHARGING WHAT THE TRAFFIC WILL BEAR.

The average railway freight rate for cotton from local shipping points to seaports is estimated at 40 cents per 100 pounds, while the corresponding rate for wheat is about 20 cents. This difference in railway charges between these two commodities illustrates the tendency of value to influence transportation costs, and also shows one of the several phases of the principle of railway rate making which s often described as "charging what the traffic will bear.

RELATIVE VALUES AND OCEAN RATES.

On the ocean, also, freight charges for cotton are higher than those for wheat. The rates quoted for regular lines of steamers for carrying cotton from Galveston, New Orleans, and New York to Liverpool, averaged during the year ending June 30, 1906, about 32 cents per 100 pounds, while the corresponding rate for wheat was only one-fourth that sum, or 8 cents per 100 pounds. A cargo of cotton shipped from Galveston to Liverpool frequently contains as much as 5,500,000 pounds, and the value in 1905-6 of such a cargo at Galveston was not far from \$600,000, while the same quantity of wheat would have been worth from \$70,000 to \$90,000. The entire cost of carrying this amount of cotton from Minneapolis for 1905-6 was 86.3 cents, and the farms in the United States to Liverpool, not mean freight rate from 311 stations in Minnesota, including costs of transfer and terminal charges, at North Dakota, South Dakota, and Nebraska, was the average rates estimated in this article would be a 6 cents per bushel. The average rates estimated in this article would be a 6 cents per bushel. much as 5,500,000 pounds, and the value in 1905-6

THE FARMER'S ADVOCATE

such interior cities as Minneapolis, Chicago, and value on December 1st, 1905, at the three primary Kansas City. The mean of the railway freight rates markets for all marketable grades of the wheat of on wheat from 562 local stations in Illinois and this region, would be probably not more than 82 Nebraska to Chicago in 1905-6 was 16 cents per 100 cents. This would make only 3.1 cents difference pounds, the same as the mean rate to Minneapolis between the average value of all wheat and the price from 311 local stations in Minnesota, North Dakota, South Dakota, and Nebraska. In estimating the mean charge to Chicago from all local chicago points.

mean charge to Chicago from all local shipping points, rates from Illinois and Nebraska were taken as typiproportion to their weight are likely to be charged cal of low and high rates, respectively. To Kansas higher freight rates than goods of relatively low value. City, from 456 stations in Kansas, Missouri, and It is understood, however, that value is not the only Oklahoma, the mean rate is found to be about 14 condition affecting freight charges; under some cents per 100 pounds. Making allowances for the circumstances a higher rate may be charged for a relative quantities of wheat received at each of these



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RAIL AND WATER ROUTES TO SEABOARD.

From the interior wheat markets to the seaboard there are two general routes, one eastward to Atlantic ports and the other leading south to the Gulf of Mexico. Along the eastward routes the railroads have to share their traffic with the waterways formed by the Great Lakes and the connecting rivers and

The freight charge from Chicago to New York or Boston for wheat intended for export was 15 cents per 100 pounds in 1905-6, by all-rail routes. Dur-ing the same year boats on the Great Lakes were chartered to carry wheat from Chicago to Buffalo at rates ranging from 1.25 to 3 cents per bushel, and the railway charge from Buffalo to New York was 4.5 cents per bushel on wheat intended for export. The lake-and-rail rate, then, from Chicago to

New York, ranged between 5.75 and 7.50 cents per bushel. Shipments by way of the lakes and Erie Canal were sent at still lower rates. During the calendar year 1905 the mean rate by lake and canal to New York from Chicago was 5.53 cents per bushel, by lake and roil the rate was 6.40 cents and the by lake and rail the rate was 6.40 cents, and the railroads charged 9.90 cents for carrying the wheat the entire distance. The all-rail rate from Chicago to Baltimore and Norfolk was 3 cents per 100 pounds less than the rate to New York or Boston and 1 cent below the charge to Philadelphia, on exported wheat. The mean all-rail rate on exported wheat from Chicago to the Atlantic seaboard may be taken as about 13 cents per 100 pounds, or 7.8 cents per bushel. On wheat intended for domestic consumption the rate to Boston from Chicago was 4.5 cents per 100 lbs. above the export rate and the mean rate on domestic wheat from Chicago to Boston, New York, Philadelphia, Baltimore, and Norfolk exceeded the mean export rate by 3 cents per 100 pounds, or 1.8 cents per bushel.

SHIPS CHEAPER CARRIERS THAN WAGONS.

Ocean rates were higher than usual during the year 1905-6, and the mean charge for carrying wheat by regular steamship lines to Liverpool from New York, a distance of about 3,100 miles, was 3.8 cents per bushel, or 1.6 cents less than it cost a farmer to haul the wheat 9.4 miles from his farm to a neighboring railroad station. Sometimes the rate on wheat from an Atlantic port from the United States to Liverpool is as low as 1.5 cents per bushel, or 3.9 cents less than the average cost of hauling from the

wheat would be \$24,000.

WHEAT.

FROM FARMS TO LOCAL SHIPPING POINTS.

mentioned at the beginning of this article, was northern obtained by the use of returns from 1,051 wheat- At Chicago the mean price of No. 2 red winter lines from New Orleans and New York and by char-producing counties. The cost for the North Central wheat for the year named was 86.9 cents, and the tered vessels from Baltimore, not including costs States is 8 cents per 100 pounds, but in Kansas, Ohio, average farm price in Nebraska and Illinois for all of transfer, may be taken as 4.8 cents per bushel, or Indiana, and Michigan the rate is 6 cents and former a base of the states of th cost is 10 cents per 100 pounds, the relatively high than No. 2 red winter. rate being largely due to the long distances over which the grain is moved.

The average farm value of wheat, as given by the Department of Agriculture, is the price at the local the average value of wheat at local points December shipping points, for practically all wheat is sold by farmers at a price which includes delivery at some from these stations to Kansas City was 8.4 cents local market or shipping point. The average farm per bushel. The cost, then, at Kansas City, would value of wheat in the United States on December 1st, 1905, was 74.8 cents per bushel, and the average cost to the farmers of delivering this wheat at 9 cents per 100 pounds is 5.4 cents per bushel. Hence the actual value on the farm would be 69.4 cents per bushel. As the wheat crop of 1905, excluding seed, was about 622,000,000 bushels, the cost of hauling the crop from farms to places of local delivery may be given as \$34,000,000, while the total value of the crop delivered at these markets and shipping points was \$465,000,000.

RAILWAY CHARGES TO INTERIOR MARKETS. value, including cost of hauling, of the crop in the grain), from the United States amounted to From the wheat regions east of the Rocky Moun- States and Territory named, was 70.8 cents. The 235,000,000 bushels and the average farm value, tains large quantities of the grain are gathered into average freight rate being 9.3 cents, the average including cost of hauling, was 62.4 cents per bushel

the average rates estimated in this article, would be 9.6 cents per bushel. The average price of wheat about 6.8 cents per bushel and may be taken to about \$50,000 while the corresponding cost for at local shipping points in these four States on Decem- represent the Gulf coast as the New York rate is in wheat would be \$1000 million to a state form Atlantic ports

cost of this wheat at Minneapolis would be 78.2 cents, plus such items as elevator charges, fees for inspection and weighing, and dealers' profits, making take the cost of charters at that port as an approxi-The average cost of 9 cents per hundredweight for a total cost of probably not more than 80 cents per hauling wheat from farms to shipping points, as bushel, or about 6 cents less than the value of No. I

Indiana, and Michigan the rate is 6 cents, and farmers wheat on December 1st, 1905, was 71.8 cents, includin Illinois, Wisconsin, Minnesota, Iowa, and Nebraska ing cost of hauling from farms, while the mean freight farms to shipping points. do this hauling at an average cost of 7 cents per 100 rate to Chicago from local stations in those two pounds. In Missouri the mean cost is 9 cents per States was 9.6 cents per bushel. According to 100 pounds, in North Dakota 10 cents, and in South these figures all the marketable grades of Nebraska Dakota 11 cents per 100 pounds. In the wheat and Illinois wheat were worth, in the Chicago market, region west of the Rocky Mountains the average probably about 83 cents per bushel, or 3.9 cents lees

RATES AND PRICES AT KANSAS CITY.

In Kansas, Nebraska, Missouri, and Oklahoma 1st, 1905, was 70.8 cents, and the mean freight charge from these stations to Kansas City was 8.4 cents be 79.2 cents, plus minor charges. The mean annual value of No. 2 hard wheat at this market for 1905-6 was 81.1 cents. In this case, the only one of the three mentioned, there is an approximate agreement in the prices used; the farm value and the price at the same average quality.

ber 1st, 1905, was 68.6 cents per bushel, so that the general typical of the rates from Atlantic ports.

The large number of grain ships chartered at Baltimore during 1905-6 makes it fairly safe to mate average for the whole coast and not far removed from charter rates from the Gulf to England. The average of the rates on wheat to Liverpool by regular 0.6 cents less than the cost of hauling in wagons from

PRICES AT LIVERPOOL.

The mean price at Liverpool for "No. 2 red winter" wheat for five months ending June 30, 1906, the season when this grade was most frequently quoted there, was 92.6 cents per bushel, and the cost of transportation to Liverpool from local points in the Middle West is estimated at 17.4 cents per bushel Deducting this freight charge from the price just quoted, and allowing 1.5 cents for profits and minor costs, the value of this quality of wheat at local shipping points in Illinois, Minnesota, Missouri, North Dakota, South Dakota, Nebraska, Kansas, and Oklahoma would be 73.7 cents, or only 2.9 cents per bushel above the average value of all wheat at those points.

EXPORTS AND FARM VALUES.

The apparent increase in the consumption of the primary market seem to apply to grades of about wheat in the United States in the five years ending June 30, 1906, and the accompanying decrease in The average of the three prices just mentioned exports was attended by a rise in local prices, which, for Chicago, Minneapolis, and Kansas City, allowing if distributed proportionally in all parts of the counfor the relative importance of each price in propor- try, would almost forbid the exportation of any tion to the quantity of wheat received at each mar- wheat at all. During the year ending June 30, 1902, ket, is 85.1 cents per bushel, and the average farm the exports of wheat, including flour (in terms of

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