

straw, while the wheat was fed with straw as the only roughage. The steers fed barley and hay made a profit of \$17.08 each, and gained 1.9 lbs. per day, the ones fed frozen wheat made a profit of \$10.76 each and gained 1.7 lbs per day. The use of the frozen wheat for steer feeding was most satisfactory, as it gave a return of 56 cents per bushel for wheat that would otherwise have been sold for 30 cents per bushel. The steers were bought for $2\frac{3}{4}$ cents per pound, and were sold at 4 cents per pound.

In 1893, a direct comparison was made between frozen wheat and barley with the following result:

	Profit per steer.	Average gain per day.
Steers fed on frozen wheat.....	\$ 12.30	1 lb. 3 oz.
Steers fed on barley.....	10.53	1 lb. 13 oz.

This shows that barley was the better feed for the steers, causing a greater gain in weight, but that the frozen wheat, on account of its very low market value, was the more profitable feed to use.

The results of this year's experiment showed that wheat that had a market value of only 25 cents a bushel was raised to 68 cents per bushel when fed to steers which were bought at $2\frac{1}{2}$ cents in the fall and sold for $3\frac{1}{2}$ cents in the spring.

While these results are based on prices entirely different from those ruling at the present day, still the prices of grain and of steers are in keeping with each other and thus the results have a bearing on present conditions, when prices are higher.

TURNIPS vs. NO TURNIPS.

In 1892 and 1893, experiments were conducted to see if it were necessary to have turnips in order to feed steers successfully. Farmers who had fed in Eastern Canada or Britain considered turnips as absolutely necessary. As the people of the West were unwilling or lacked the help to grow turnips, these experiments were undertaken to determine if success were possible without them, and what advantage would be gained if they could be added to the ration. The feed used was chopped frozen wheat and cut straw.

AVERAGE RESULTS OF 1892 AND 1893.

Steers Fed.	Profit per steer.	Average gain per day.
With turnips.....	\$ 11.53	1 lb. 7 oz.
Without turnips.....	12.47	1 lb. $4\frac{1}{2}$ oz.

The results show that turnips are not necessary to give good results, in fact with grain so cheap as it was at that time, a greater profit was obtained without turnips. However, the average gain in weight per day of the steers showed that they fattened better when fed with turnips and the experimenter notes that those fed on wheat and straw alone were "off their feed" several times, while those that received turnips were always ready for their feed.

We believe that with present prices for grain, the addition of turnips to a ration would not only increase the daily gain but also the net profit.

However, the main result for which the experiment was undertaken still holds good, viz., no Manitoban farmer need refrain from steer feeding because he has no turnips.