# Lssay rize

## By John E. Sirrett, Neepawa, Man.

This Essay was awarded the Prize of \$15 as the second best essay written by the Students of the Manitoba, Agricultural College of the First and Second Years.

Co-operation, or the combined action of members, is undoubtedly one of the circumstances which promote the produc-tiveness of labor. The truth of this statement is so self evident, as to need no demonstration. Indeed, it may be truthfully said that in a countless number of employments the product of labor, is, up to a certain point, directly pro-portional to such mutual assistance as is rendered amongst the workmen, and it does not, we think, require a very great mental exertion to enable one to see that if we never helped each other, even in the most aimple operations, our condition

rendered amongst the workmen, and it does not, we think, require a very great mental exertion to enable one to see that if we never helped each other, even in the most simple operations, our condition wold hardly be superior to that of the wild animals; we would in general reguire our utmost exertions to procure a living. The principle involved would seem to lie simple walks of industrial civiliza-tion and to permeate all the activities of man. We pay regards to it in the simple walks of life, e.g., it is quite ob-vious that two men working together would do more of a certain kind of work, than four, or four times four, each of short having observed that 'the extensive of the same idea. Thaving observed that 'the extensive of the same idea. Thaving observed that 'the extensive of generally the thinking farmers of Western Canada are endeavoring to make a broader application of it to his particu-lar line of business, and while admitting that agriculture is not susceptable of or great a division of occupation as many branches of manufactures, because its different operations cannot possibly be simultaneous, i.e., one man cannot be al-ways ploughing and another always out of the gain to be derived from pro-dustion and distribution on a large scale. As well as producing an inferior articles af are enterprise secure for themselves on define a production and this work and at a greater cost because of his work-ing on asmall scale, our farmer is oblighed the agree to be derived from pro-duction and distribution on a large scale. As well as producing an inferior articles of produce and then distribute them af at a greater cost because of his work-sing on asmall scale, our farmer is oblighed the services and exact too high a price of the gain to be derived from pro-duction and distribution on a large scale. As well as producing an inferior articles of produce and then distribute them af the services and exact too high a price of produce and then distribute the see the profits of the producer and raise to bo which

in and for which co-operation offers the distion. Since dairying has already in many farts of the world come under the control of co-operative societies, with results for a since the societies, with results of a societies, be realized by any societies of the societies, with the societies of a co-operative dairy as they are actually operated than proceeding in an argumentative way, and the inference will be clear that what applies to this will be to industry will, with the proceeding to industry will, with the proceeding of it in the factory. (1) Superior organization both as regards and in the factory. (2) Superior organization both as regards handling of it in the factory. (2) Superior disposing of the finished article on the context of the societies.

Modern dairying is essentially a mach-ine industry. The plant consists of up-to-date machinery for making butter by the "centrifugal" process, with the pro-per accommodation for the same, and is driven by mechanical power, usually riven by mechanical power, usually eam. The cost of a fair sized dairy cluding motive power, will be somewhere tween three and seven thousand steam. includin dollars

The process of operation is follows:

The process of operation is somewhat as follows: Each morning the milk is brought in from the farm into the dairy yard, and after a sample of each supplier's milk has been taken for testing purposes, is poured into large tanks. The milk is then separated at patternising tem-perature. The skim milk (about seventy-five per cent. of the whole weight) being returned to the farmer for cattle food. The cream which remains with the excep-tion, perhaps, of a small quantity reserved along cooling pipes iso as to reach the churn at a suitable temperature. When the resulting butter and butter milk are taken from the churn, the bufter

OWERS GUIDE summers of concentrated production will be out-weighed by the dearness and heremary that the milk should be sent in each morning. To obviate this difficulty any dirities can be established, to perform the preliminary process of sep-arating the skim milk from the cream, which is despatched to the central cream-which is the only represents one-fourth of the bulk of the milk, can be the state transport, from which it incurs no damage. As an auxiliary costs, at most is the stope of a power association. If its trade grows it can be connected with a total membership of over ten-demand. They are rareat in France stowaand. They are rareat in France to be discover frequently amount. The disposing is really the important of "Superiority of bargaining power." For the discover is is of a high quality at produce of high quality may fetch in each of the market or if their con-pates the the consumer is obstructed by the interposition of unnecessary.

by the interposition of unnecessary Biddlemen. Moreover, even when at-isfactory relations are established with the consumer, the producer may fail to profit by it, if they are efficient in



Home of F. Harrison, Rirtle, Man

milk is sucked down by pumps and led away along the pipes to be pasteurised and returned to the farmer, also for cattle food. At first, both in Ireland and Den-mark, the farmers grunbled because their buttermilk was not so valuable as before, not realising that this decrease was more than compensated by the completer not realising that this decrease was more than compensated by the completer. extraction of the more valuable butter material. Lastly the butter passes into the finishing room, where it is rolled, salted and packed. By noon the work of the dairy is at an end. The whole process occupying but a few hours, is thus one which depends for its excellence on a combination of expert direction and good machinery.

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transport and packing. The latter is especially important in the butter trans-port, for if the casks are not properly air-tight, the butter, though of a high grade when manufactured, may have lost half of its value when it reaches the con-sumer, scientific packing, and regular dispatch of a uniform quantity and quali-ty, can only be achieved by large scale organizations. organizations

In the perfection of marketing condi-tions, Denmark is the model for all other countries. Practically all the butter of their co-operative dairies is exported through nine export federations. Of this out-put about ninety-eight per cent. goes to Great Britain, the whole of which is shipped from two Danish ports, Esberg and Kopenhagen, to five British ports, Grimsby, Hull, Parkeston, Newcastle and Leith. Export to a single distant market through a few big channels is obviously a condition of affairs favorable to the attainment of the highest economies. We have considered the easily demon-strable superiority of the co-operative dairy and its marketing organization

dairy and its marketing organization over the small isolated home dairy selling to middlemen. It is even more necessary to measure the difference to the farmer to measure the difference to the farmer between his position as a member of a co-operative dairy and his position as milk supplier to an organization of which he is not a member, whether that organi-zation be an ordinary public or private firm, or a dairy-owning consumer's whole-sale. The co-operative form is more bene-ficial and more profitable, and for these reasons:-First, the excellence of a coun-try's butter, depends primarily on the

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quality of milk from which it is made. The private concern cannot concentrate the milk raising at one central point and supervise the farmers, as it can supervise its butter operatives. All it can do when poor milk is sent in, is to poperative society which combines both functions, is interested in telling its mem-bers how to raise better milk, because not only as a butter factory, does it require good material for its factory, but also, as a society of farmers, it de-eires that the milk shall fetch a good price. Both the co-operative society and the firm are trading bodies, and they will not punch the farmers, by the payment of ower prices, the societies remedy is to ower prices, the societies remedy is to ower prices, the price maid by the

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### LANDS SOLD WELL

LANDS SOLD WELL The greatest sale of school lands in the history of the West, which closed last week at Medicine Hat, shows the faith the people of southeastern Alberta have in their soil, for by far the greater part of the 76,000 acres which were sold was hought by farmers who have been settled for several years on the homesteads, etc., in the vicinity of the school lands which they bought. The prices ranged much higher than was expected, for although the average was 813.22 per acre, many outlying sections were bought by ranchers for grazing purposes at the upset price of \$7 an acre. Eliminate the land located forty and fifty miles from existing or prospective railroads upset price of \$1 an acre. Liminate the land located forty and fifty miles from existing or prospective railroads and the price would be considered some-bing remarkable, averaging in the neigh-borhood of from \$25 to \$30 an acre. The parcels along the Crow's Nest railway and out through the area which is being run under irrigation by the Southern Alberta Land Company appeared most very lively, some of the land being run up to \$30 an acre. A large number of the parcels to the West of the city along the C. P. R. main line also brought un-usually high prices. The Southern Al-berta Land Company were the heaviest purchasers, picking up 16,000 acres at the close of the sale.

Gifford Pinchot still upholds the Pinchot dignity by doing the best he can in aiding conservation plans as a private citizen

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