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VOL. XXXVII



Trade increases the wealth and glory of a country: but its real strength and staming are to be looked for among the cultivators of the land .- Lord Chatham

TORONTO, ONT., JUNE 6, 1918

No. 2

The Problems of the Dairy Farmer in Alberta'

A Review or the Situation by G. A. Hutton, B. S. A. Director Dominion Experimental Farm, Lethbridge, Alberta

A LL lines of effort dealing with production are facing special problems at this time. The ranks of the producers have been drawn upon to fill the ranks of those who fight that men who stay may have freedom to produce. Both ranks of men, those at the front and those on this side, are facing new problems, new hardships and new responsibilities. It hould not be said of those who form the home ranks that they have weakened under the fire of these problems.

mains that they have weakened under the fire of these problems are said to have sunk over three million pounds of cheese in the first two weeks of January. Production must take into account these losses, meet them, and in addition, produce foods in quantities never before totalled. This is a part of the problem of the ranks of these who skay at home. Let meet the problem of the ranks of these who skay at home. Let meet the problems worth while, finds itself without serious problems at this time. It is part of a man's job to face these problems and solve them. The problems presenting the most serious difficulties are those of food and labor. The problems of housing, the combatting of diseases, and the fact that dairy products have more or less of a competitor in elecomagnatine, are questions of somewhat minor importance at the present time, but still merit the carnest consideration of the dairymen of Alberta. Briefly, let us discuss the minor problems first.

Oleomargarine Blunder.

Oleomargarine Blunder.

I consider that we made a national blunder in permitting the sale of oleomargarine in Canada. The food value of this product is so decidedly interior to that of butter in the neurishing qualities it contains, that those families who consider that the pressure of socessity compels them to use this substitute, will do so to the detriment of the health and, mentail of accessity compensate them to use this substitute, will do so to the detriment of the health and, mental wildeling of the young people who are growing up is these homes. It is to be expected that this product will not compete with anything but low-grade butter, and since this province has the reputation of making very little of this class of goods, eleomargine will hardly be a serious competitor, its a discriminating market, of the product of the dairy cow. As a menace to the dairyman it may prove nothing but a shadow having an outline but no substance. It is tour-duction is unfortunate more from the standpoint of the consumer than that of the producer, though it is bound to be injurious to both classes. It is to be hoped that in the interests of the good health of the nation that this product may be with-drawn from Canadian markets as soon as the war closes.

Diseases.

Diseases.

We must in time face the question of tuberculosis in Canadian herds. I have sometimes thought that the question might be dealt with by dividing the province into zones, that importations to and exportations from these zones should be made only under test, that in time the whole of the province could be included and cleared of the disease by the gradual milliplication of the healthy zones. It is admitted to be a big task to clear an entire province at one to the work were undertaken in this way do not not be gradually under the country of the co

Whether this scheme would work in predice is not so much the question as it is that some plan should be evolved for the handling of this disease anoths of evolved for the nameling of this disease so that we may look forward to a future in which the health of the human population of the province is not menaced by diseased herds. We have been paying too little attention to the health of the family and relatively too much, to the health of the almal. A visitor to a southern town was remarking on the fact that a number of houses along the river were set up on posts to provide for the possible rise of the stream. As he walked along he came to one particular house where the area underneath was enclosed for three feet along the ground with boards nailed to these posts, and going over he found a 'arrage number of hogs in the enclosure under the dwelling. The owner was asked as to whether he did not believe that this practice of housing hegs beneath the residence was unsanitary, to which he replied, 'No, 'I've Kept hogs under this country to which he replied, 'No, 'I've Kept hogs under this country was another than the country of the provider of the state of the

Housing

Housing.

It is a difficult matter to build a dairy barn that is at once economical, sufficiently warm for winter, and well resultated. The term economical matter and well resultated. The term economical matter is a consistent with the securing of the other, equilates necessary to maximum production of the herd housed in the building. The two-storey barn, with storage provided for feed shove the cown, is the most satisfactory type of building. The celling of the first storey should not be too high, and the ventilating system capable of being regulated so that the latake of air may be fully controlled. The ventilating shafts carrying out the fout air should be double-boarded, with paper between, so that the outgoing warm air carrying out the rou air should be double-coarded, with paper between, so that the sutgoing warm air will not cool too quickly, causing the formation of frost and the gradual filling of the ventilator shafts with frest during protracted periods of cold. Concrete floors, steel fatures, and plenty of room behind the cattle are items which add to the initial cost, but which contribute to permanency, cleanliness and reduction of the labor cost in the handling of the herd. It is not to be doubted that the cost of the herd. It is not to be doubted that the cost of building will be lower later on, and those mon who find their equipment, even though not fully satisfactory at the present lime, yet capable of being adjusted to such an extent as to make possible the efficient handling of their herd, will be well advised to make these necessary adjustments, delaying temporarily the construction of more elaborate building

Increasing the Selling Price of Milk.

Sound business sense demands that any line of endeavor shall offer fair profits before attracting capital and labor investment. Dairying has not offer-ed sufficiently attractive inducements in the way of profits in recent years to warrant very increasing investments in this branch of animal husbandry, in competition with other lines of agriculture. Milk investments in this branch of animal husbandry, in competition with other lines of agriculture. Milk is the cheapest and most nutritious food on the market to-day, I am not suggesting that the price of milk be raised to such an extent that it would be even on an equal basis with other foods, but that the price of milk and its products be advanced in order that the profits resulting to the dairyman would be such as to attract larger luvestment, and

would be such as to attract larger investment, and so increase, production.

The cost of the nutrients in milk at the prices at which it is being retailed to-day are away below the cost of nutrients in steak, salmon and chicken, and would permit of some equalisation without injustice to the consumer. Milk at twelve cents per quart represents 90°s clories of heat, steak at thirty-day of the consumer. The contract is almost at twenty cents per jound represent contract twenty cents per jound represents 23°s calories of heat.

Labor Efficiency.

Labor Efficiency.

When men are working to what they consider their full capacity, no one receives much thanks for suggesting an increase of output with the same suggesting an increase or output with the same labor. It is a fact, however, that frequently an in-quiry into methods in vogue will make clear to the owner certain changes in method which will reduce labor without detracting from efficiency. Every operator should inquir of himself as to whether

operator should inquire of himself as to whether there are not some change in his system which might be introduced that would effect a saving in labor. The mechanical militer should receive the con-sideration of every dairy larmer who is handling 15 or more cown. The Experimental Farms System has been carrying on experiments for several years at the Cantral Farm at Oilawa, with various makes of

been carrying on experiments for several years at the Central Farm at Ottawa, with various makes of mechanical milkers, and have reached the conclusion that a saving in labor of from 35 to 40 per cent. may be effected by the use of such a machine. It has been estimated that the cost of hand-milking is 7.3c per cow per day where men are paid 25c and a contral contr

The Silo is Indispensable

N these times of high-priced



feeds the silo is as indis-pensable to the farmer as a pensable to the farmer as any other plece of farm equipment. Many farmers would be better off if they had less other farm equipment and a sill or two. Silos mean livestock, and livestock means more pasture, hay, corn, other grains, and farm

manure.
Livestock means enriched soil, larger crops, more money for the farmer, and plenty of prosperity for everybody.
Livestock means more meat, milk, butter, cheese, and clothing for our soldiers. No nation can exist without an ample supply of

animals

nation can exist without an ample supply of animals.

Silage should be considered by the farmanimals.

Silage should be considered by the farmanimals are some siders her canned fruit, a provision for future needs. The advantages of the silo are many, and if these were known to this farmanimals are some silouted by the silouted silouted by the silouted silouted

"An address before the Alberta Dairymen's Associa-

(Continued on page 27.)