

RED DEER CREAMERY.

a first necessity. In this country, where silage doesn't seem to have any impression upon him. is hardly used at all in winter feeding, succulence may be gained by feeding roots. Clover and alfalfa hay, also, though no more succulent by nature than ordinary hay or green cut grain, seem to add something to a ration which other roughage does not. What they add is in part due to the large amounts of proteid nutrients they contain, but they seem to add something also in the way of succulence to a ration that is out of proportion to their moisture content. It is probable that some of the value of clovers as a winter fodder comes from their palatableness.

This question of the palatableness of the various grains and fodders in feeding opens up another field of inquiry, a much more difficult one than the mere question of the composition and digestibility of feeding stuffs. Two feeds may compare most favorably in regard to their percentage composition of the necessary ingredients and in regard to the digestibility of those ingredients, but the degree in which they are agreeable to the taste of the animal influences very largely their value to the individual for any certain purpose. Palatableness stimulates the appetite, relish for food is conducive to good digestion. The taste, therefore, of food tends to promote a state of vigorous activity on the part of the digestive organs. The agreeableness of a food's flavor is, without doubt, an important factor in successful feeding.

Balancing a ration does not necessarily mean that it is compounded of the best possible materials, and is in the best possible form for the economical production of milk or other animal products. Standards may be set up for the feeder's guidance, experiments more or less scientific and unrelated to actual feeding may demonstrate certain principle which it would seem proper to follow in the feeding of animals, of dairy cows especially, but, after all, it is the individuality of the animal, its capacity to consume and its ability to produce, the effects of food upon its health and condition, upon its appetite and taste, that are the real vital factors in the problem of feeding.

Average Farmer and Dairying

The person who could succeed in getting up some scheme of interesting the average farmer in the dairy business would be entitled to have his name enrolled among the benefactors of the human race.

ment it is not as much so as it might seem before it is to bring the butter, and the maker is often a good does not appear too thin, a little water at a tem-

The average farmer today is a dairyman just be- them. cause he happens to be. He did not go into it premeditatedly, he just drifted into it. He found himself with a few cows and a little more milk and cream on hand than his family could consume and he sold it, and he probably gave no thought to whether it was a smaller in size than they were earlier in the lactatrouble to look up the price, or the test.

as this, we can look for but little difference in the temperature. There may be some trouble in character of the raw material that is coming to the regard to ripening, though ripening troubles are



CHEESE FACTORY AT ERSKINE.

farmer wants to own all the land that joins him, and undertakes to farm it all, he isn't going to pay much attention or take much interest in dairying.

Occasionally there will be a farmer who appreciates what dairying means to his soil, to his family, and to his posterity and he will be interested in farmers in his community he will be the most success-

Just what is going to be necessary to interest the average farmer in dairying is pretty hard to tell. One thing is certain, he cannot be driven into it. It also seems that he cannot be persuaded into it. The example of a successful dairyman neighbor

Just so long as present conditions prevail—that is, so long as the present high prices of grain and meat and if we can believe the economist who studies the future, we are never again to see cheap grains or cheap meat products.

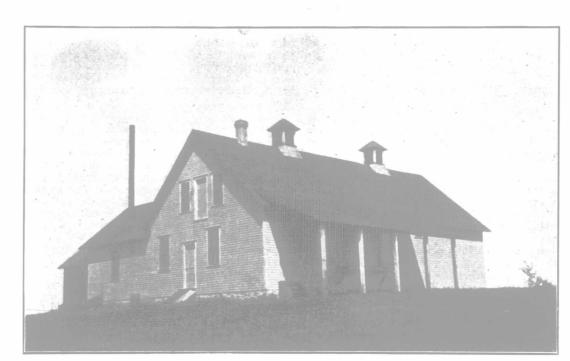
Population, they say, is increasing so fast and is becoming so centered in the cities; our manufacturing enterprises are becoming so great, requiring such a products will always exceed the supply

If this should be the case there is but little danger that any person will ever have his name enrolled as a public benefactor for interesting the average farmer in the dairy industry. - Chicago Dairy Produce.

Extensive farming and dairying don't go together. diet, or something that will cause them to give It takes small farms and intensive farming to make more milk. Succulence may be added to the good dairymen. Just as long then as the average feeding ration in the form of roots, but in the majority of the cases where troubles of this kind occur there are no roots to feed. Neither is there much of anything else that will serve the purpose. About all the dairyman can do in the circumstances, is to attend carefully to the ripening of his dairying. He will be a dairyman, and of all the cream. Of course if he has some roots, clover hay and bran, he can work up a feeding ration that will overcome winter churning difficulties pretty effectually, but if he can't get these feeds there is not much use explaining what might be done if he

The viscosity of the milk may be lessened by bringing about a vigorous lactic acid fermentation in the cream, and in extreme cases by diluting the cream with warm water or weak brine. Care products continue, he is going to be a hard man to must be taken not to carry the dilution too far, interest in anything but the raising of these products; else trouble quite as serious may result from else trouble quite as serious may result from going to the extreme in the opposite direction, that is, by making the cream too thin. The cream as it is gathered should be mixed, placed in a can or crock until sufficient has been gathered for a churning, and then raising the temperature to vast army of workmen, all of whom are consumers of about 70 degrees. It should be held at this point these farm products, that the consumption of them until there is a good acid development—until the has outrun their production to the extent that it will cream is sharp and sour to the taste. Then by never again catch up; and that the demand for these bringing it to a temperature of about 65 degrees or higher if it seems necessary, the butter should form in the usual time

The attempt should not be made in winter, especially if the cream is from the milk of farrow



CREAMERY AT STETTLER, ALTA

Winter Churning Troubles and how they may or stripper cows, to churn at the lowest possible

the winter season. These usually manifest the best thing to do is to take the cream out of the While this may seem to be an extravagant state- themselves in a lengthening of the time required churn and heat it up ten or fifteen degrees, or if it

caused by the fact that the cows have been a long to lessen the viscosity in some way and facilitates time in milk, the fat globules are consequently the formation of the butter granules. good product or not. He sold it simply because he tion period, making it more difficult for them to found out he could, and he probably never took the coalesce and form the butter granules, and in addition, the fat of cows advanced in milk, or of As long as the average farmers are as indifferent farrow cows, is harder, and has a higher milking less liable to occur in winter than in summer. It is easier to obtain the cream in good condition to start with, and further the low temperatures of the when he goes into the poultry business. If he is season are unfavorable for the development of wise and has had any experience in poultry keepthe organisms that cause the most serious trouble ing, he will have only one object in going into the in summer. When any reasonable care is exercised in handling the milk and cream, troubles specialization in industries. In poultry keeping due to improper ripening need not necessarily as well as in other things, and he who keeps his occur. To the cows and the character of the food energy from which milk is made, may be attributed most will likely attain better results than if he attemptof the churning troubles of the fall and winter ed to a read himself over several lines in the same

relatively speaking. The cream becomes highly if he viscous, that is, it is sticky, adhesive, and proglutinous in character. The natural course to be follow is to be the cows on a more succulent

short of the breaking point and further agitation There are certain churning troubles peculiar to fails to bring any more of it. If this results, about deal perplexed to know exactly how to deal with perature of 85 or 90 degrees may be added. Another way to bring butter in cases like this is As a general rule churning trouble in winter is to add a little dry salt to the churn. Salt seems

POULTRY

Poultry Keeping as a Business

A man may have one or several objects in view and means centered upon one line of work A man going into poultry, if he is going Cows that are far advanced in lactation and fed into a for computered burrows, for the production dry fedder give milk the fat of which is hard, tion of cass and reality products, is well advised se made a specialty of the it sines, and does not try compaire, and some men can