

(3.) The disease overwinters by means of resting mycelium on the shoots and in the bud-scales. It is spread in summer by means of conidia produced from mycelium covering leaves and shoots.

(4.) It may be controlled by the systematic cutting-out of infected shoots and buds during the winter pruning, and by spraying according to the foregoing schedule.

(5.) Atomic sulphur, 10 lb. to 100 gallons of water, is the most efficient fungicide to use as a controllant.

LITERATURE CONSULTED.

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HERD-TESTING.

WHY AGGREGATE ASSOCIATION RECORDS ARE HIGHER THAN FACTORY RETURNS.

W. G. BATT, Farm Dairy Instructor, Taumarunui.

HERD-TESTING association members often ask why association records, as a rule, show a greater aggregate amount of butterfat than the actual factory returns, and in this article an endeavour is made to outline some of the chief causes of the difference. In the first place it may be pointed out that the comparison in question is totally unfair, and rather tends to show a lack of understanding of the working of the system on the part of the farmer concerned. When one considers that the association records are the result of an average taken from two days' production in every thirty, and that conditions are all in favour of this being on the high side, it is no surprise that the figures recorded are often greater than the actual return. It must be understood, however, that this can make no difference to the value of such figures in culling, as they must be taken on a comparative basis, which, providing each cow receives the same treatment, is of value even if the records are considerably higher than the amount of butterfat actually produced. This has been amply demonstrated, and I have no hesitation in asserting that the association figures provide a safe and reliable basis for culling.

CAUSES OF DISCREPANCY.

Some of the causes of the discrepancy referred to are as follows:—

Milk fed to calves and used by household: In the early part of the season this is fairly considerable, and takes a material amount of fat away from the factory returns while being credited to the association records. There is in this way a difference set up between the two returns more or less throughout the season.