

3 per cent. of salt and curd, your overrun is 19 per cent. By increasing the moisture to 15 per cent. you reduce the fat-content of the butter to 82 per cent., and your overrun will be 20.45. Approximately, a loss or gain of 0.25 per cent. in moisture will make a difference of 0.36 per cent. in overrun.

#### THE DAILY RECORD.

Keeping a record of the work done daily in the factory has much to recommend it, and if accurately carried out it will often be the means of tracing any defect. Taking moisture-content as an example, we will assume that 100 boxes of butter have been made during a certain period, and that the average moisture-content is 15 per cent. Allowing 3 per cent. for curd and salt, the butter would contain 82 per cent. of fat. If there was no loss in handling the overrun would be 21.95 per cent. If the overrun is only 20 per cent. the loss in handling must have been about 1.5 per cent. of the total butter-fat bought. Should this vary to any extent from one period to another, you have then something to go on to locate the leakage. It is the prevention of leakages which makes the difference between good and bad management.

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*Ciddendum.*—When using exhaust steam for pasteurizing it is necessary to attach an oil-trap to the steam-pipe leading from the engine to the pasteurizer. Unless this is done the cylinder-oil will adhere to the inner wall of the steam-jacket of the pasteurizer and thus interfere with the capacity of the machine.

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*Harrowing Pastures.*—Almost the whole of the grass land at Ruakura received a stroke of the chain harrow in May. Where the pasture has been heavily stocked the chain harrow does as much good as a top-dressing. For this work the combined tripod-and-chain harrow cannot be too highly recommended. The chain harrow alone is apt to run over manure which has been lying for some time and become set, and the work is therefore not done so effectively. The combined tine-and-chain harrow may be recommended. This is a locally made harrow, and has been in general use on this farm for many years. With the tines turned down this harrow makes a first-class job on grass land, and when turned over it is one of the most useful implements for harrowing out weeds in the orchard.—A. W. GREEN, *Manager, Ruakura Farm of Instruction.*