SHRINKAGE IN STORED BUTTER.

Caused by Evaporation and Leaking of Brine.

A better any economically contain an abnormally high percentage of water. During worked butter was found to contain less water than that worked same. Furthermore, the longer the time elapsing between milking and butter churning the less water was found in the butter. The poorer grades of butter contained most water. The average for the poorer classes of butter that was 15.31 per cent of moisture against 14.93 per cent for the best class. The average of the first four classes was 14.37 per cent and for the last four classes is 15.08 per cent.

Winter butter contained on an average more water than summer butter, both in case of creameries and gathered cream; the average moisture content of the summer butter was 14.11 per cent and of the winter butter 15.05. Butter of low fat and a low per cent of water is injurious to keeping qualities of the butter, although a excess of water proved more so than a deficit.

The shrinkage of butter in storage was studied up to the second scoring. The shrinkage was found to be due to two causes—evaporation of water from the tub and butter and leakage of brine. The former has will always take place, but in a more marked manner when a leakage of brine occurs on standing than when there is no leakage. The cause of the leakage of brine cannot be ascribed to an excessive water content of the butter, as many of the butters contained considerable over 16 per cent of water, not so brine on standing, while, on the other hand, butter with less than 15 per cent did lose brine. Fourteen per cent of the summer butter and 16 per cent of the winter butter lost brine on being kept for two weeks. The average losses were 10 pounds for the summer tubs and 32 pounds for the winter butter.

Creameries may have some loss from amount of moisture in weighing butter or neglect when a tub of butter out of water from tub and butter condition but when plant and reduced the weight of the butter. The "short weight" will seldom amount to more than a pound per 100 pounds of butter. However, judging from Danish experience, the loss of brine will occur more frequently in winter than in summer and will also amount to more during the cold season than in summer time.—Report in Creamery Journal.

Baby Separator.

A Kansas correspondent inquires "If a baby No. 2 hand separator is sufficiently large for a herd of 15 or 20 cows."

This separator will skim 350 pounds of milk per hour, having but one revolution of 1 per cent fat in the skimmilk if the milk is warmed to the right temperature. This is better than can be done with any system of setting with which we are acquainted. A man used to the work will turn a separator for the milk of 20 cows without feeling it very difficult labor, skim twice a day, pouring the milk fresh drawn from the cow into the separator tank. Fresh drawn milk, with the warmth it carries, is just about the right temperature for the best skimming, and unless exposed to the cold and blowing is delayed there is actually no need of warming speech milk.

I should prefer, however, to have some small power to drive the separator. Small treed powers are now becoming common, and a ball or light horse will work one of them, giving entire satisfaction. By this means if the separator is placed in a room adjoining the barn the milkers can carry their pails of milk and strain directly into the separator tank. A Jersey bull used for churning the milk in this way at this station a couple of years since seemed to be well pleased with the job after he understood what was expected of him.

This bull weighed less than 800 pounds when first used on the treed power, and yet his weight was sufficient to drive the separator at a satisfactory speed. The dairymen adopted the practice of giving the bull a drink of warm skimmilk after each separation, and it was amusing to see the young fellow walking away on the treed power drinking at the mouth in anticipation of the warm drink of milk which he seemed to relish greatly and he repaid as full compensation for all labor performed.—Professor W. A. Henry in Breeder's Gazette.

The Gallery Gods' Applause.

Lawrence Barrett once told me of a conversation he had with Edwin Booth. The latter had been congratulated upon an ovation given him by a crowded house on the opening night of an engagement. "The greatest music to my ears," said the great tragedian, "is the clomping of the boys in the gallery. I know they are not applauding because I have a reputation or because they wish to make a display. They simply give vent to their natural enthusiasm. When they cough, I know that I am giving a good performance. As for the people, it may clap its hands out of politeness. A comedic actor who had certain scenes so to how a line should be read will applaud if I read it his way, otherwise he will remain quiet. I can never analyze the applause of the front rows, but the gallery is sincere in its like or dislike."—Chicago Herald.

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