With normal milk, the temcalving. varies from 50° to 68' perature but for abnormal milk, the variation may be much greater, consequently. it is difficult to lay down fixed rules on this point. However, we may say that it is better for the tempsrature to be a little too low than too high, because in the latter case a risk is run of having a butter too soft and not enough of it.

autumn, when the cows are housed, great care should be taken not to begin churning at too low a temper ature, since the cream may then be in danger of frothing. Should this happen, it may be remed ed by adding a little boiling water, but in general it is better to let the cream rest till the next day, to allow the frost to disappear. Then, by the warming it up 2° or 3° above the temperature of the previous day, the butter will come quickly, but as long as the cream froths, it will be very difficult to churn

During the churning the temperature or the churn be driven too slowly. To the taste of the market. The salt is The rise is generally about 2½ ' 1... measured in a graduated glass, and arrives in half an hour, if the sprinkled over the better cream was at the right heat at the

If the temperature does not rise,

proper time is of great importance as is ascertained by the thermometer indicating a rise of temperature, and, when that instrument is withdrawn, beginning, resemble sour cream with little bubbles of air, but gradually change their looks, and at last show praised.

When the butter begins to come, and is about right the grains are of equal size, many makers pour cold water into the churn that butter is cooled equally on all to make the buttermilk thinner. At sides, and throughout the entire mass; the same time, the motion of the otherwise a crust, so to speak, will churn is slackened, lest the butter should mass itself, or be over-churned, accidents that often occur at this mo ment. As soon as all the grains of but ter attain the same size, the churning is stopped.

The size of the grains depends greatly upon the resources of the minutes or an hour will do; but in cream. Usually, they should be about summer, when the butter is very soft. as large as a cabbage seed; this is the best size and shows that the churning has been well done. If the cream is very rich in fat, the grains may some times be as large as peas, but, then, care must be taken not to prolong the churning, for the butter would be salting; but in general, it is better to greasy. When the churning has been let it have two or more workings after greasy. When the churning has been carried too far and the grains have become flat in shape, there is no means of making the butter of a height appearance; in brilliant, bright appearance; in spite of all the pains taken in work ing, it will have a tendency to become dull in look and the texture will be faulty.

After stopping churning, the first thing is to rinse the sides of the churn, the cover, and the spindle, with water that as been boiled and subsequently cooled to the churning temperature, this water must be always clear and pure. In some places, skim milk is used for this purpose, but only where the water is bad and has not been water.

boiled, boiling destroys the micro

The butter is removed from the churn with a sieve, holding the churn in a sloping position. In Denmark, the washing of butter, as it is done in France is not practised. The buttermilk runs off almost entirely through the sieve, and the butter is put into a tub placed at the side of the churo.

In some factories, this is the way in which the washing is done: a sieve full of butter is plunged into clear, pure water, previously boiled, and at the same temperature as the cream when being churned; this takes away most of butter-milk. All the utensils em ployed are first scalded and then soaked in clear cold water previously boiled. This butter washing must be done very carefully, otherwise the sioms of the batter might be destroy ed The butter is then freed of the buttermilk by pressure, either by hand or power. di

spread on the working table. butter is then passed under the roller for a few minutes, and laid aside a little under ordinary circumstances, it is to allow it to grow firm, and for the because the churning has been done salt to dissolve. When worked again at too high a temperature, and, in the buttermilk runs off with the orme, case, the butter will not all come, and but at each fresh working the butter becomes softer, and it would not be easy often the operation The cessation of churning at the to determine how often the operation should be repeated. We must take into regards the consistence and texture of consideration the state of the cow, the the butter. The coming of the butter food she is receiving, the season of the year, and the conditions of the churning; but, as regards a uniform quality of butter, temperature influenby the appearance of the drops of ces it greatly. The higher the tempo-liquid clinging to it, which, at the rature of the butter and its room, the greater care is needed not to overwork it; the butter, before reworking, must become firm again; consequently the the butter itself in small grains. In time employed will be longer in sumorder to follow up the changes that mer, because then the butter will re take place in the churn, a small main soft for a longer time, and pane of glass has been placed in the shorter in winter, since we must not side, an improvement that is highly wait until the butter be brittle or too hard to work. Butter at 50° to 54° F

Refrigerators for butter .- Take care that butter is cooled equally on all sides, and throughout the entire mass; form, the middle will remain soft, and the butter will ron the risk of looking greasy. The moment when it is ready to be reworked is when it can be broken, showing grains with sharp edged attachments (à arêtes vives) Generally, in autumn or winter, 30 summer, when the butter is very soft.
no fixed rule can be laid down The no fixed rule can be laid down man or woman, must judge by the consistence and temperature of the butter, when and how often it should be worked. In some places, the butter is worked only once, 2 to 4 hours after salting, to give it consistence and beauty. In cold weather, and at any time if the butter seems inclined to become hard, it is better to work it before the salt is completely dissolved, i, e, 45 minutes to an hour after mix , and an hour, or an hour and a ınα half later, to give it the last working.

If, in summer, it is necessary to leave the butter till the next day before working it for the last time, it

1, The " Dairy Messeng r " No. 9, gives

should be passed four or five times under the rollers after salting, care being taken to mix the salt more than usual, and expelling as little of the brine as possible.

If it is worked once or oftener and if the butter has a tendency to become either too soft or too hard, it ought always to be kept long enough to become firm, and to receive such a thorough working that the buttermilk be entirely expelled and the brine remain alone and in sufficient quantity. Without observing these rules good butter or superior butter c mot be made; and so as regards both the churning and the working, if we want to avoid breaking the texture of the butter and making it greasy.

HOW TO JUDGE BUTTER AND TO RECOGNIZE ITS FAULTS

Every maker should have a butter testor in order to detect the defects in the working and colour. Thes defects are not discertible until a couple of days after packing. The butter must have time to settle (déposer) first.

First rate butter appears, when drawn out by the tester (sonde), to be firm, clean, the texture resembling wax and of a uniform colour. If it has been overworked, its appearance will be dull greasy, or, as the exporters say, "not translucid." Batter worked for the last time before salt is completely dissolved is not uniform in colour throughout, but streaky, etc. Thus. the faults of the butter may be discovered in the factory, and so it would be as well to work it again before marketing it. The defects of colour are visible in a few days; if the right proportion of colouring has not been added, the butter will, of course, be too light or too dark. If the colouring is not of good quality a deposit will saleigh Grange Firm, Danville, PQ form on the bottom of the bottle or jar containing it and the butter will suffer.

Oily but, or will be discoverable in a few day-, and this characteristic will increa-o during eight or ten days. By using the tester, the maker will be able to find out the defects and in many cases be able to cure them, or, at any rate, take note of them as a! guide in his future conduct.

(To be continued.)

## NOTES AND NOTICES.

Mr. James H. Lloyd has gone in for heed. A Solid Gold Filled Watch for shires and Beak hires which he has been so sures and Back hir's which it has been so sured with 11 s herds this year, secured 13 prizes with 14 entries at Montrea Exhibition, he has recently purchised two new boars which are well-calculated to stin further enhance the value of his stock. As will be seen in his a tvertis ment he has some fine you g sock really for shipment at prices to sait the times suit the times

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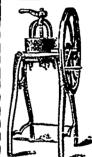
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