# Practical Butter-making

# How to Pack for Shipping

of the Western Farmett, as yet, among heep and heart cours to rought the math of their can tables. There are various, resumes why Kie products of the dairy do not receive viry great attention from the average Western farmer. In the first place, perhaps one of the greatest disadvantages he has to contend with its the poor market for such his preducts, and occountry, the farmed has not the times to decore to such an industry, in these clays of extensive wheat caning. The long, cold winter is also a drawback, to a certain catent, we the average farmer is not in a position to build herror for the accluminedation and proper care of the dairy keed.

Although the average Western farmer does not produce batter for the matter, he should at beaut produce saffected for his own table, and the quality of such should be four produce saffected for his own table, and the quality as driving fact that much or the Canadian marketable butter is deficient in quality.

#### Cleanliness Essential

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The first executial of good butter making in elecutions. To begin with, if the cause are milited in the tarm, the building absented by the tarm, the tarm of the tarm, the tarm of the tarm of the tarm, the tarm of the t

# Ripening Cream

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Frequently it is the case when churn
ing is done every day to ripen the
cream by the aid of commercial starter.

Hy this means the growth of lactic acid
bacteria and the formation of lactic
acid can be controlled. Thus the growth
of undesirable bacteria can be almost
entirely prevented; there is thus less
difficulty in making a uniform quality
of butter, the butter keeps better and
the flavor is usually greatly improved.
Commercial starter is prepared by
obtaining a small bottle containing a
culture of lactic acid producing bac-

term. Introduced are usually sent with those or the full aring staturd is the sent and the full aring staturd is the sent and plant of clean, which is the sent plant of clean, which is a sterile gian gar. Heat the milk greedwilly in matter and it a temperature for at least one hour, or allow the milk to could to minety degrees. Faltersheet, being eareful not to plant too woldenly in end under As seen as ninety degrees. Faltersheet, being eareful not to plant too woldenly in end under As seen as ninety degrees. Faltersheet is reached the contract of the half is a refully added to the milk and mixed through it. The minture is now allowed to could to write the degree of Faltersheet and then retained at this temperature for twenty-four hours, when it should be soor. This is exiled a "mother starter," or "starter for the following day, take one hundred pounds or follows, were skill multi in a previously attentived era and heat it to at least two hindred degrees. Faltersheet to at least two hindred degrees. Faltersheet to the full one hour. Then could rapidly to secuently degrees and add the contents of the quart for prepared the day greenown, mixing it thoroughly literage the milk with a sterilized dipper. Faltersheet the milk with a sterilized dipper, Faltersheet in the milk with a sterilized dipper, I four hours, when it should be soor, casquisted and clean in flavor. A small amount of this is avend out to inoculate the starter for the following day, and previous can be repeated and carried on in the same manner from day to day. A great mistake is often made in holding exam too long when it is ready for churning, as the longer it is held the more the flavor and the quality of the butter suffers.

### Churning

Churning

Just previous to churning the temperature of the cream should be lowered. The higher the temperature the somer the churning process will be completed. Higher temperatures cause the butter to come in soft lumps instead of in firm granular form. The high temperature also causes too much butter milk to remain in the butter and thus mot tless are left in it, and its keeping qualities are also impaired. On the other hand, too low a temperature at churning causes difficult churning by increasing the viscosity of the cream, often, too, the granules become so hard that the butter takes up sult showly and is difficult to work. Another defect in too low a temperature at churning is that, if the granules are too firm and cold, too much water is lost from the lutter in working, thus decreasing the overtup.

hatter is worsing, the decrease overrun.

Under normal conditions the cream should be churned between fifty to sixty degrees Fahrenheit and the churning should be completed in at least one

### Preparing New Churn

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In preparing a new churn for use it should first be washed out with plain warm water. Then rinsed with hot sait water. Then sait water should be left in the churn for at least twenty-four hours, so that the porce of the wood become closed and filled with sait. If desirable, the churn may be steamed on the inside before being scaled in sait water. After this treatment the churn is rinsed in cold water and is then ready for use.

The churn should be kept in a clean, aweet condition. After use it should be rinsed with warm water, then rinsed again with hot water, and finally rinsed again with hot water and finally rinsed again with hot water in which some lime has been dissolved. Sometimes steam and sait solution are used for the final rinsing, but they are not sot satisfactory as hot lime water. Nothing will do more to preserve the sweet, fresh condition of the churn should be kept in a dry place, and before using again it should be thoroughly washed with hot sait water.

To determine when cream is churned enough, the granules should be about the time of very Eresis, and the but termith where of very Eresis, to the milk the determine the butter floating well up in the milk. When eream is churned too long the granules become too hard and contain too much butternilk, which is difficult to remove, and thus there is a danger that too much mistare will be incorporated in the butter. If the cream he of poor flavor the excessive moisture and butternilk injures the keeping quality of the butter. By not churning long enough the granules are too small and many of them are but in the milk. There is also difficulty in holding moisture in the butter and in many cases leaky butter is the result. In order to churn properly the cream must not be too thick not too thin, and must be of correct temperature; also the churn must not be accretioned.

Frequently cream has a frothy appearance. This is often caused by the cream being too sweet at churning and the overloading of the churn. For immodistic treatment a little warm water whould be added around the outside of the churn, and perhaps a little may be added directly to the cream. If the churn is allowed to stand for a time the frost may settle and the churning can then be completed.

Washing the Butter

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Just as soon as the free huttermilk
can be removed the butter should be
washed at a temperature as near as
possible to that at which the cream was
churned. When too cold water is used
the butter is chilled, thus the escape
of the buttermilk is hindered. Too cold
water also may cause a tallowy appearance in the butter. Too warm water
also injures its texture, causing it to
become greamy and soft. Sometimes one
washing is enough, but usually two or
three waters must be used. The last
water should run away perfectly clear.

If the granules of the butter are very
soft the last water may be cooler than
the first, but, in order to retain a high
moisture content in the butter, the
water must not be too cold. Sometimes
when the flavor of butter is not good,
excessive washing is resorted to, but
this does not usually have a very bene
ficigl'effect, especially if the had flavor
is of bacteria origin. Some volatile food
flavors, however, are materially decreased by washing in good water.

Salting Butter

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As soon as the butter has been properly washed the salt should be applied by passing it through a fine meshed sifter in order to prevent lumps of salt entering the butter. The salt should be given plenty of time to dissolve before the butter receives its final washing working. The amount of salt put in the butter depends upon the time the butter is to be kept, and upon the market requirement; also the moisture content of the butter raceives.

Frequently butter, is brine salted, that is, the butter is soaked in salted water. There is, however, an increase of labor in this system and also too much moisture is liable to get into the butter; sufficient working is not given. The average salt content of butter is two per cent. Excessive salting causes gritty butter. The average composition of good butter is a follows:

Fat S4.00 per cent. Water 1.3 ""
Salt and ash 197" "

Salt and ash

# Packing Butter for Shipment

Packing Butter for Snipment.

There are few things of greater importance to the general public than good milk, good cream and good butter and cheese. If all producers of milk for town and city consumption could only realize that the very lives of the children in cities, towns and villages depend very largely upon the purity of milk

supply, they would not do some things they do, and would do some things they do not do.

The producers of milk and cream have great responsibilities, because milk which is not treated properly within half an hour after it is drawn from the row wi. never be in the best condition for consumption or for making cheese and butter. Leaving out the subject of cleanliness, proper packing has a great deal to do with the matter of obtaining a good price for butter. After careful inquiry the writer has come to the conclusion and is assured by retailers that it is correct: It will pay a producer of real good dairy butter to work up a ronnection with a city retail house, but the one who produces a medium or poor grade butter will do better to trade it in the country store.

Will Pay Cash

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There are many reasons for this. Ferhaps the one that will carry the most weight with the producer of fancy butter is that the city retailer will pay each for each shipment as it is received, and the producer will get as high a price as the quality of the butter warrants. That is, the shipper of the "fancy" butter will get more per pound than one who ships butter that grades only "good." This is not the case at the country store. The country dealer, in practically every case, pays one flat price for all the butter he purchases, and that price is necessarily figured on what he can get for straight runs for stock; thus, while a few get really more than their butter is worth, many of the traders at the store get less. The reason for this is obvious. The country dealer is not simply a purchaser of butter; he is, hesides, a retailer of household goods. He must keep his trade in these and treat all customers alike. If he pays one more than another, he makes an enemy who will carry his trade to the rival store. Hence, in order to keep everyhody satisfied, he must pay each the same price, and that price low enough to assure him that he will lose nothing, even if the quality of the butter is poor.

The larger city retailer labors under no such condition. He is not dependent upon the country for the sale of his wares. He also has a strong demand for the best kind of butter and, in order to supply this demand he is willing to pay good prices. And, hesides, he pays in cash, not in trade, do most of the country afores. Butter should be shipped in one-pound prints are always popular, while the one-gallon crocks. An appeal to the housekeeper as it will go into the ice chest and not take up much room, while a larger crock is much more cumbersome. The prints should always he covered with clean, while parchment paper, while a piece of the same should cover the crocks. A good plan is to have the parchment paper printed with the name of the farm and the producer, thus:

FORESTDALE FARM BUTTER

# PORESTDALE FARM BUTTER Mrs. B. B. Blank

Hankton Man.

Then if the butter is really good, the purchaser will ascertain the name on the package and always demand the same. Indeed, there are a number of shippers who deal with retail firms in Winnipeg whose shipments are sold before they reach the store. These shippers can get any price within reason for their produce, and this good end has been reached by simply having their name printed on the wrappers, while if the paper had been plain the trade would never have been built up. But after such a good reputation has been built up the producer should be very careful to keep up the standard, for only one shipment of poor stuff is Continued on Page 24

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