

MEDICAL.

ONLY WAY TO SUCCESS:

SENSIBLE ARTICLE ON CROP ROTATION AND STEADY FARMING.

A Pure and Fixed Idea. With a Flexible Plan Within Certain Lines, Seem to Be the Best for the Ordinary Farmer—Particulars.

A correspondent of the Coburg Gentleman, who has evidently given much thought to the question of crop rotation and steady farming, says: Much has been written on this subject, yet many cases have been written up in the past, and are before us at the present time, which go to prove that farmers may times disregard the fact (other than carelessness or ignorance) that to do otherwise than continue a regular rotation of crops and farm steadily is to impoverish their lands and bring poverty on their own heads.

What are the factors to be taken into consideration to determine the most desirable rotation for churning in any particular case? There are two general factors, namely, thoroughness of churning and time taken in churning. The last is the most important, for the most important factor is the time taken to churn, and the loss of butter fat in the butter-milk have therefore been much larger than they should have been.

The following table will illustrate the effect of temperature both upon the thoroughness of churning and the time taken to churn. The first column of figures shows the churning temperature, the second shows the time taken to churn, and the third shows the per cent of fat left in the butter-milk.

Table with 3 columns: Temp., Time, and Per cent Fat in Butter-milk. Rows show temperatures from 40 to 60 degrees and corresponding times and fat percentages.

These figures are taken from work with sweet cream, and the losses at the higher temperature are more than at the lower. It has been found that sweet cream requires a churning temperature from six to ten degrees lower than that which would be taken if the butter-milk were to be churned.

The same is true of the cattle market; it has its "ups and downs"—also of hops in the past two winters—in fact, it is the same with everything a farmer raises. If he undertakes to follow the high market, it will lead him a merry chase.

In fact, the only rational view seems to be that steady work in the one direction of all diversified farming is the only way to success. Steady churning, raising grain, hay and all the staples in rotation; keep a few sheep and cows; raise new and then a good cow; remember that eggs will soon gather no more, and never allow high prices to be an incentive to abrupt changes.

THE MICROPHONE. One of the most curious instruments which the development of electrical science has brought into being is the microphone.

It consists of a thin wire, the other end of which is attached to a telephone, and which is placed in contact with the surface of a horn of a horse's head, and when it is struck, especially at the moment of death, it is easily audible.

Under ordinary circumstances, are distinctly heard in the microphone. The tone of a watch tick, the sound of a coin, and the sound of a hammer, are all quite a distance from the receiver.

The instrument in appearance assumes various shapes, inasmuch as the very simplicity of its principle admits of its being made of various substances and in almost any form. It is necessary, however, that the simple working in having what is known as an "electric contact"—that is, an electric circuit whose continuity at some point is capable of being varied.

As an instance, three nails make one of the best microphones. Two of the nails are laid on a board parallel to each other, and say one-half inch apart. The other nail is laid across the first two, the latter being connected to a battery cell and a telephone receiver.

Another effective device consists of a thin wire, the other end of which is attached to a telephone, and which is placed in contact with the surface of a horn of a horse's head, and when it is struck, especially at the moment of death, it is easily audible.

Young, old or middle aged, who find themselves nervous, weak and exhausted, who are broken down by chronic indigestion, resulting in many of the following symptoms: Mental depression, premature old age, loss of vitality, loss of memory, bad dreams, dimness of sight, palpitation of the heart, constipation, lack of energy, pain in the kidneys, headaches, pimples on the face and body, and all symptoms of nervous debility that lead to insanity unless cured.

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CHURNING TEMPERATURE.

Intelligence Required to Apply General Rules—An Interesting Table.

All business-like dairymen now work their dairies themselves in their own ways. It is well known that the temperature is especially in determining if their cream is at a proper temperature for churning.

What is the proper temperature? The summer dairy temperature is marked "churning temperature" at 65°, and as a general average for all seasons, bread, feeds and conditions of milk add cream, that temperature is, however, not so very far out of the way. But it surely ought not to be used by any dairymen as without some care the proper temperature for his individual practice for churning is marked.

What are the factors to be taken into consideration to determine the most desirable rotation for churning in any particular case? There are two general factors, namely, thoroughness of churning and time taken in churning.

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Canada is too young a country to rely entirely upon sales of good paintings, and hence the privilege is given to this society to hold distributions. If a painting is not drawn, the sender has the satisfaction of knowing that the twenty-five cents will assist in maintaining the free galleries and free school. Scrip-holders are entitled to purchase the paintings of the society at five per cent. reduction. A postal card sent to F. E. GALLBRATH, 108 King Street West, Toronto, will send you all information.

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QUEBEC STEAMSHIP COMPANY. River and Gulf St. Lawrence—SS. MIRAMICHI. LEAVES MONTREAL ON MONDAY. At 4 p.m. and on July 29th and 30th.

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