

ESTABLISHED 1878

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In our Savings Department Deposits of \$1 and upwards are received, on which the highest current rate of interest is allowed.

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## If Your Horse Gets Hurt?

If one of the horses should be kicked—cut a knee—strain a shoulder—go lame—have you the remedy at hand to CURE the injury?

### Kendall's Spavin Cure

Ought to be in every stable and barn in Canada. It prevents little horse troubles from becoming big ones—and takes away all signs of lameness. With a bottle of Kendall's Spavin Cure handy, you are prepared for accidents that may happen at any time.

CROSSFIELD, Alta., Jan. 14 '06.  
"I have used Kendall's Spavin Cure with great success in many things, such as Barb Wire Cuts and Raw Sores." M. J. MORRISON.

"Don't be without it another day. Get a bottle at your dealers, \$1. or 6 for 5¢. Our 'Treatise On the Horse' tells just what you ought to know about horses, their diseases, and how to cure them. Write for copy."

D. B. J. KENDALL CO., ENNSBURG FALLS, VERMONT, U.S.A. 35

### SWEET CREAM BUTTER

THE STRICT RULES THAT MUST BE OBSERVED TO MAKE THIS KIND OF BUTTER.

(By J. G. Bouchard.)

The making of butter from so-called "sweet" cream differs from other methods in that it excludes the ripening of the cream. Briefly described, the process is as follows: The cream is cooled as soon as it comes from the separator, fairly large quantity of pure culture, used as a starter, is added to it, and churning is begun at once. Simple as that method of buttermaking may seem, satisfactory results may not be obtained by it unless certain rules are strictly adhered to, and judiciously applied according to changing conditions.

The percentage of fat in the cream must be high enough to allow of churning within a reasonable time at a low temperature. It must be varied according to the season of the year, the more or less advanced period of lactation of the cows, and the quantity of starter to be added. In springtime when the cows are newly calved, and churning is relatively easy, the proportion of fat may be made as low as 28 per cent., but during winter and fall, when the viscous condition of the cream prevents the rapid agglomeration of the fatty globules, it may run as high as forty per cent. A safer rule to follow would be to separate in such a way as to have in the cream two and a half to three and a half times the percentage of fat contained in the milk. Thus 100 pounds of milk containing four per cent. fat should give from ten to fourteen pounds of cream.

The cooling of the cream is one of the most important operations in this process of buttermaking. A special cream cooler should be connected with the separator, to receive the cream as it issues from it. If the churning is to be done immediately after skimming, the cream must be cooled to 40 degrees or 42 degrees; but if churning is to begin only two or three hours afterwards, it will be sufficient to carry the cooling process to 50 degrees or 52 degrees provided that temperature is maintained up to the time of churning.

It must be understood that if the cream is cooled to 40 degrees or 42 degrees, it must be churned at once, for if it is kept too long at that low temperature, its fatty globules will become so hard as to render agglomeration much more difficult. The cream issuing from the cooler at 40 degrees or 42 degrees is immediately turned into the churn, which should have been cooled previously. When the skimming is completed, the required quantity of starter is added to the cream, and the churning is proceeded with. The amount of starter to be added varies from 20 per cent. in summer, to 30 per cent. in winter. That proportion of starter should also be varied according to its own acidity and that of the cream, in order that the greatest possible uniformity may be obtained.

The temperature of the starter, as prepared every day should be between 60 degrees to 65 degrees when ready to be used. When added to the cream in that condition it will raise the temperature of the mixture to about 50 degrees, which is a proper temperature for churning. If it is not convenient to churn immediately after skimming, it is desirable to store the cream in a ripening vat kept cool by water and ice. If it is impossible to cool the cream below 50 degrees when skimming, and if churning must take place within two hours after, it will be necessary to cool the starter to about the same temperature.

The object of pasteurization is to kill almost all the germs which the cream contains. It is a matter of heating the cream to a temperature of 140 degrees to 185 degrees F. Twenty minutes' exposure in a water bath to a temperature of 140 de-

### INSECTS AND FUNGUS GROWTHS

THEY HAVE DONE MUCH DAMAGE; BUT HAD INCIDENTALLY CAUSED A SPREAD OF KNOWLEDGE.

Year by year the damage done to crops of the farm, orchard, and garden by insects and fungous pests seems to be increasing. Some of these pests (say R. Harcourt, Professor of Chemistry, and H. L. Farmer, Demonstrator in Chemistry at the Ontario Agricultural College) may be a blessing in disguise, in that the remedies used for their eradication have been beneficial in other respects; but in order that they may be successfully combated, it is essential that the farmer know how to fight them to the best advantage, and that he have a clear idea of the nature of the remedies employed and the precautions that must be observed in their use.

To spray with any degree of suc-

cess requires, beside a knowledge of the acting principle of the remedy which is being employed, a rather intimate acquaintance with the enemy which is being combated.

The different classes of insects and fungous diseases do not show similar characteristics. If it were so, then the question of remedy would resolve itself into a very simple one: the discovery of a single successful one which would end our labours.

As it is, a great many of these remedial compounds are required in plant economy, the absolute number needed depending entirely upon the different ways in which insects and fungous diseases attack their food or host plants. This results largely from differences in anatomical and physiological structure of these little but often highly destructive animals and plants.

Dr. McMahon said that he would not argue that, as far as life insurance was concerned, an abstainer was a better risk than a moderate drinker. The man who takes a glass or even two glasses of wine or beer a day is not in my opinion a less desirable risk than one who drinks immoderately.

He is less exposed to the habits of the club and the bar-room, and there is perhaps less danger of contracting vicious habits."

The doctor pointed out the difficulty recognized by all medical examiners of detecting the difference between moderate drinkers and those who, while calling themselves moderate, yet drank half-a dozen glasses of alcohol a day. The searching questions of the doctors are often repeated, applicants get huffed, lat, and thus business was lost to the company. Agents complained of losses, and a new examiner was the next move.

The speaker stated that applicants for insurance often tried to get by telling half-truths, or even lying about their drinking habits.

It is scarcely necessary to point out that, while Dr. McMahon's contention is that the moderate drinker is physically as good a risk as the total abstainer, the danger of his going to excess and eventually becoming an absolute necessity, in producing butter of an acceptable quality.

To obtain a butter of delicate flavor and of good keeping quality, churning must be stopped when the granules of butter are about the size of clover seeds. If larger quantities are allowed to form, more casein and water will be retained in the butter, and its keeping quality thereby impaired. When the churning is completed, the buttermilk is immediately drawn off and passed through a strainer so as to retain the butter granules. The buttermilk being very fluid flows very readily, and a draining of half an hour will usually render washing unnecessary.

However, if salting and working are to be done immediately after churning, a light washing must be given. Water of about 50 degrees F. is added in sufficient quantity to float the butter, and it is drawn off after a few revolutions of the churn. If the purity of the water used cannot be depended upon, it is preferable not to wash the butter. If the butter has been washed, it must be drained for a few minutes after the water has been drawn off and before salting. Otherwise a considerable quantity of salt would be wasted.

### A "Rest Room" for the Farmer's Wives

(Collier's Weekly.)

Collier's Weekly tells us of a town that has a "Rest-Room" for farmer's wives. It is about time that some consideration was taken of these patient, useful citizens, especially when we are so dependent upon their labors.

In Oskaloosa, Iowa, a room in the City Hall has been fitted up as a rest room. It is clean; muslin curtains are on the windows; half a dozen rocking and other easy chairs are in the room; the table is spread with magazines and papers; agreeable pictures are on the walls, and a few shelves of books are there, beside a clock which really keeps time; out of this room opens an apartment supplied with three long tables, twenty or more dining chairs, and a sofa. On these tables the women can spread their luncheons. Opened out of the sitting-room there is a large toilet, generously supplied with clean towels, soap, combs, etc. A motherly woman presides over these rooms. The paper does not say how the room is financed, but it does say that the matron has her wages paid, the place is heated, and well supplied with literature, growing plants, and clean linen. It was not only patronized by farmer women, but the girls from the telephone office and other female clerks made good use of it. Here is something that might be useful in every town. Merchants and others who want the products and trade of our farm women might see that such a room is provided and maintained. The different women's organizations, especially the women's clubs, literary and social, and the W. C. T. U. might also make it their business to arrange that a well-kept "rest-room" is maintained in every town and city.

Consumption is less deadly than it used to be. Certain relief and usually complete recovery will result from the following treatment:

Hope, rest, fresh air, and—*Scott's Emulsion*.

ALL DRUGISTS: 50¢ AND \$1.00.

THE WATCHMAN-WARDER

### FALL FAIRS IN ONTARIO

LIST OF THE FAIRS FOR WHICH DATES HAVE BEEN FIXED FOR THIS YEAR.

LINDSAY CENTRAL EXHIBITION.

at Lindsay, Ont., Sept. 18, 20, 21.

Abingdon..... Oct. 16 and 17.

Almonte..... Sept. 24, 25, 26

Alliston..... Oct. 3 and 4.

Alvinston..... Oct. 2 and 3.

Aldred..... Sept. 24 and 25

Alexandria..... Sept. 9 and 10

Ameliasburg..... Oct. 4 and 5.

Amherstburg..... Oct. 1 and 2.

Arthur..... Sept. 19.

Atwood..... Oct. 1 and 2.

Aylmer..... Sept. 2, 3, 4, 5, 6

Baden..... Sept. 18 and 19

Barrie..... Sept. 23, 24, 25

Baysville..... Oct. 2.

Beeton..... Sept. 24.

Bethune..... Sept. 26 and 27.

Becher..... Sept. 25.

Beachburg..... Oct. 3 and 4.

Berwick..... Sept. 12 and 13.

Belleisle..... Sept. 17 and 18.

Binbrook..... Oct. 7 and 8.

Bobcaygeon..... Sept. 25 and 26.

Bowmanville..... Sept. 26 and 27.

Bothwell's Corners..... Sept. 26 and 27.

Blackstock..... Oct. 1 and 2.

Blyth..... Sept. 23 and 24.

Bradford..... Oct. 15 and 16.

Bracebridge..... Sept. 26 and 27.

Brussels..... Oct. 3 and 4.

Bruden..... Oct. 1.

Brockville..... Sept. 10, 11, 12, 13

Brighton..... Sept. 25.

Bruce Mines..... Oct. 3 and 4.

Burford..... Oct. 1 and 2.

Cayuga..... Sept. 24 and 25.

Caledonia..... Oct. 3 and 4.

Casselman..... Sept. 10 and 11.

Campbellford..... Sept. 24 and 25.

Castleton..... Oct. 1 and 2.

Carp..... Sept. 8.

Campbellville..... Sept. 1 and 2.

Cobden..... Sept. 23 and 24.

Cornwall..... Sept. 6 and 7.

Cott Hill..... Sept. 20.

Collingwood..... Sept. 24, 25, 26, 27.

Comber..... Sept. 30, Oct. 1.

Colborne..... Oct. 1 and 2.

Clarksville..... Oct. 16.

Delaware..... Sept. 26 and 27.

Desboro..... Sept. 24 and 25.

Delta..... Oct. 2.

Dorchester..... Sept. 24 and 25.

Durham..... Oct. 3 and 4.

Dundalk..... Sept. 17 and 18.

Dresden..... Oct. 8 and 9.

Dunchurch..... Sept. 24 and 25.

Drumbo..... Sept. 7, 8 and 9.

Elmvale..... Sept. 24 and 25.

Emdale..... Sept. 19 and 20.

Emo..... Oct. 16 and 17.

Erin..... Sept. 24 and 25.

Essex..... Sept. 16 and 17.

Exeter..... Sept. 1 and 2.

Fergus..... Sept. 3 and 4.

Fevershams..... Sept. 30, Oct. 1.

Fewick..... Sept. 26 and 27.

Fernella..... Sept. 3 and 4.

Fort Erie..... Sept. 3 and 4.

Florence..... Sept. 26 and 27.

Flesherton..... Sept. 27.

Frankford..... Sept. 19 and 20.

Frankville..... Sept. 26 and 27.

Galt..... Oct. 1 and 2.

Georgetown..... Oct. 3 and 4.

Gore Bay..... Oct. 3 and 4.

Gooderham..... Oct. 8.

Gordon Lake..... Sept. 27.

Glencoe..... Sept. 15, 16.</p